

10/667,442

=> d his

(FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004

L1 1212511 S KINASE?  
L2 442433 S HUMAN AND L1  
L3 406466 S SERINE OR THREONINE  
L4 39005 S L2 AND L3  
L5 6588705 S CLON? OR EXPRESS? OR RECOMBINANT  
L6 22817 S L4 AND L5  
L7 4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN  
L8 0 S KIDNEY OT UTERUS  
L9 1844028 S KIDNEY OR UTERUS  
L10 4280 S L6 AND L7  
L11 1410 S L6 AND L9  
L12 5270 S L10 OR L11  
L13 4661 SS L1 (2W)L3  
L14 4661 S L1 (2W)L3  
L15 195 S L12 AND L14  
L16 126 DUP REM L15 (69 DUPLICATES REMOVED)  
E YE J/AU  
L17 1758 S E3  
E YAN C/AU  
L18 1019 S E3  
E DIFRANCESCO V/AU  
L19 112 S E3-E4  
E BEASLEY E M/AU  
L20 297 S E3  
L21 3154 S L16 OR L17 OR L18 OR L19 OR L20  
L22 126 S L15 AND L21  
L23 126 DUP REM L22 (0 DUPLICATES REMOVED)  
L24 1665 S "STK"  
L25 0 S L23 AND L24  
L26 41147 S L1(A)L3  
L27 25 S HUMAN (A)L26  
L28 1 S L22 AND L27

=>

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 May 10 PROUSDDR now available on STN  
NEWS 4 May 19 PROUSDDR: One FREE connect hour, per account, in both May  
and June 2004  
NEWS 5 May 12 EXTEND option available in structure searching  
NEWS 6 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
NEWS 7 May 17 FRFULL now available on STN  
NEWS 8 May 27 New UPM (Update Code Maximum) field for more efficient patent  
SDIs in Cplus  
NEWS 9 May 27 Cplus super roles and document types searchable in REGISTRY  
NEWS 10 May 27 Explore APOLLIT with free connect time in June 2004  
NEWS 11 Jun 22 STN Patent Forums to be held July 19-22, 2004  
NEWS 12 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT  
NEWS 13 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,  
and WATER from CSA now available on STN(R)  
  
NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004  
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004

=> file medline embase biosis biotechds scisearch hcaplus ntis lifesci		
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	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE 'LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004  
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

=> s kinase?

L1 1212511 KINASE?

=> s human and l1

L2 442433 HUMAN AND L1

=> s serine or threonine

L3 406466 SERINE OR THREONINE

=> s l2 and l3

L4 39005 L2 AND L3

=> s clon? or express? or recombinant

5 FILES SEARCHED...

L5 6588705 CLON? OR EXPRESS? OR RECOMBINANT

=> s l4 and l5

L6 22817 L4 AND L5

=> s hippocampus or breast or carcinoma or brain

L7 4757769 HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN

=> s kidney ot uterus

L8 0 KIDNEY OT UTERUS

=> s kidney or uterus

L9 1844028 KIDNEY OR UTERUS

=> s l6 and l7

L10 4280 L6 AND L7

=> s l6 and l9

L11 1410 L6 AND L9

=> s l10 or l11

L12 5270 L10 OR L11

=> ss l1 (2w)l3

L13 4661 L1 (2W) L3

=> s 11 (2w)13  
L14 4661 L1 (2W) L3

=> s 112 and 114  
L15 195 L12 AND L14

=> dup rem 115  
PROCESSING COMPLETED FOR L15  
L16 126 DUP REM L15 (69 DUPLICATES REMOVED)

=> d 1-126 ibib

L16 ANSWER 1 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
ACCESSION NUMBER: 2004-08972 BIOTECHDS  
TITLE: Down regulating a pre-selected endogenous gene, useful in  
treating cancer or a pre-cancerous growth, infectious  
diseases and/or inflammatory diseases, by administering a  
composition comprising a double-stranded RNA molecule;  
gene down-regulation and RNA interference for use in  
disease therapy and gene therapy  
AUTHOR: SCARIA P V; WOODLE M C; LU P Y; TANG Q; XU J; XIE F Y  
PATENT ASSIGNEE: INTRADIGM CORP  
PATENT INFO: WO 2004013310 12 Feb 2004  
APPLICATION INFO: WO 2003-US24587 6 Aug 2003  
PRIORITY INFO: US 2002-401029 6 Aug 2002; US 2002-401029 6 Aug 2002  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 2004-157124 [15]

L16 ANSWER 2 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:120760 HCAPLUS  
DOCUMENT NUMBER: 140:193038  
TITLE: Use of mouse genes involved in tumor development for  
the development of anti-cancer drugs  
INVENTOR(S): Van Lohuizen, Maarten Matthijs Sharif; Berns, Antonius  
Jozef Maria; Martins, Carla Pedro; Mikkers, Henricus  
Martinus Maria; Lenz, Jack Richard; Lund, Anders  
Henrik; De Koning, John Paul  
PATENT ASSIGNEE(S): Kylix B.V., Neth.  
SOURCE: PCT Int. Appl., 280 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004012817	A2	20040212	WO 2003-EP8470	20030731
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1386639	A1	20040204	EP 2002-78143	20020731
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
US 2004033974	A1	20040219	US 2002-224524	20020819



PRIORITY APPLN. INFO.: EP 2002-78143 A 20020731  
US 2002-224524 A 20020819

L16 ANSWER 3 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:334306 HCAPLUS  
DOCUMENT NUMBER: 140:404560  
TITLE: ILKAP regulates ILK signaling and inhibits  
anchorage-independent growth  
AUTHOR(S): Kumar, Ashu S.; Naruszewicz, Izabela; Wang, Ping;  
Leung-Hagesteijn, Chungyee; Hannigan, Gregory E.  
CORPORATE SOURCE: Department of Laboratory Medicine and Pathobiology,  
University of Toronto, Toronto, ON, Can.  
SOURCE: Oncogene (2004), 23(19), 3454-3461  
CODEN: ONCNES; ISSN: 0950-9232  
PUBLISHER: Nature Publishing Group  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 126 MEDLINE on STN DUPLICATE 1  
ACCESSION NUMBER: 2004123575 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14981538  
TITLE: Apoptosis signaling by the novel compound 3-Cl-AHPC  
involves increased EGFR proteolysis and accompanying  
decreased phosphatidylinositol 3-kinase and AKT  
kinase activities.  
AUTHOR: Farhana Lulu; Dawson Marcia I; Huang Ying; Zhang Yuxiang;  
Rishi Arun K; Reddy Kaladhar B; Freeman Robert S; Fontana  
Joseph A  
CORPORATE SOURCE: John D Dingell VA Medical Center, Karmanos Cancer  
Institute, Department of Internal Medicine, Wayne State  
University, Detroit, MI 48201, USA.  
CONTRACT NUMBER: PO CA51993 (NCI)  
SOURCE: Oncogene, (2004 Mar 11) 23 (10) 1874-84.  
Journal code: 8711562. ISSN: 0950-9232.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200405  
ENTRY DATE: Entered STN: 20040312  
Last Updated on STN: 20040514  
Entered Medline: 20040513

L16 ANSWER 5 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:145007 HCAPLUS  
DOCUMENT NUMBER: 140:404419  
TITLE: Phospho-Serine-118 Estrogen Receptor- $\alpha$   
Detection in Human Breast Tumors  
in Vivo  
AUTHOR(S): Murphy, Leigh; Cherlet, Tracy; Adeyinka, Adewale; Niu,  
Yulian; Snell, Linda; Watson, Peter  
CORPORATE SOURCE: Department of Biochemistry and Medical Genetics,  
Manitoba Institute of Cell Biology, Winnipeg, MB, Can.  
SOURCE: Clinical Cancer Research (2004), 10(4), 1354-1359  
CODEN: CCREF4; ISSN: 1078-0432  
PUBLISHER: American Association for Cancer Research  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2004221561 EMBASE  
TITLE: Collagen I upregulates extracellular matrix gene  
expression and secretion of TGF- $\beta$ 1 by cultured  
human mesangial cells.  
AUTHOR: Ortega-Velazquez R.; Gonzalez-Rubio M.; Ruiz-Torres M.P.;  
Diez-Marques M.L.; Iglesias M.C.; Rodriguez-Puyol M.;  
Rodriguez-Puyol D.  
CORPORATE SOURCE: M.P. Ruiz-Torres, Departamento de Fisiologia, Facultad de  
Medicina, Universidad de Alcala, Carretera de Barcelona,  
Km. 33,600, Alcala de Henares, 28880 Madrid, Spain.  
mpiedad.ruiz@uah.es  
SOURCE: American Journal of Physiology - Cell Physiology, (2004)  
286/6 55-6 (C1335-C1343).  
Refs: 40  
ISSN: 0363-6143 CODEN: AJPCDD  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 005 General Pathology and Pathological Anatomy  
006 Internal Medicine  
028 Urology and Nephrology  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 7 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2004:118174 SCISEARCH  
THE GENUINE ARTICLE: 766WX  
TITLE: Transcriptional activation of p21(waf1)/(cip1) by  
alkylphospholipids: Role of the mitogen-activated protein  
kinase pathway in the transactivation of the  
human p21(waf1/cip1) promoter by Sp1  
AUTHOR: De Siervi A; Marinissen M; Diggs J; Wang X F; Pages G;  
Senderowicz A (Reprint)  
CORPORATE SOURCE: NICDR, Oral & Pharyngeal Canc Branch, Mol Therapeut Unit,  
NIH, 30 Convent Dr, Bldg 30, Room 212, Bethesda, MD 20892  
USA (Reprint); NICDR, Oral & Pharyngeal Canc Branch, Mol  
Therapeut Unit, NIH, Bethesda, MD 20892 USA; Duke Univ,  
Med Ctr, Dept Pharmacol, Durham, NC USA; Ctr Antoine  
Lacassagne, Inst Signalling Dev Biol & Canc Res, F-06054  
Nice, France  
COUNTRY OF AUTHOR: USA; France  
SOURCE: CANCER RESEARCH, (15 JAN 2004) Vol. 64, No. 2, pp. 743-750  
  
Publisher: AMER ASSOC CANCER RESEARCH, 615 CHESTNUT ST,  
17TH FLOOR, PHILADELPHIA, PA 19106-4404 USA.  
ISSN: 0008-5472.  
DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 69  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 8 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
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ACCESSION NUMBER: 2004051002 EMBASE  
TITLE: Aberrant methylation of DAP-kinase in  
therapy-related acute myeloid leukemia and myelodysplastic  
syndromes.  
AUTHOR: Voso M.T.; Scardocci A.; Guidi F.; Zini G.; Di Mario A.;  
Pagano L.; Hohaus S.; Leone G.  
CORPORATE SOURCE: M.T. Voso, Istituto di Ematologia, Universita Cattolica S.  
Cuore, L.go A. Gemelli, 1, 00168 Rome, Italy.  
mtvoso@rm.unicatt.it  
SOURCE: Blood, (15 Jan 2004) 103/2 (698-700).  
Refs: 24

ISSN: 0006-4971 CODEN: BLOOAW  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 016 Cancer  
025 Hematology  
037 Drug Literature Index  
038 Adverse Reactions Titles  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 9 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 2004:173292 BIOSIS

DOCUMENT NUMBER: PREV200400174837

TITLE: Homeodomain-interacting protein **kinase**-2 activity  
and p53 phosphorylation are critical events for  
cisplatin-mediated apoptosis.

AUTHOR(S): Di Stefano, Valeria; Rinaldo, Cinzia; Sacchi, Ada; Soddu,  
Silvia; D'Orazi, Gabriella [Reprint Author]

CORPORATE SOURCE: Molecular Oncogenesis Laboratory, Regina Elena Cancer  
Institute, Via delle Messi d'Oro 156, 00158, Rome, Italy  
dorazi@ifo.it

SOURCE: Experimental Cell Research, (February 15 2004) Vol. 293,  
No. 2, pp. 311-320. print.  
ISSN: 0014-4827 (ISSN print).

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 31 Mar 2004

Last Updated on STN: 31 Mar 2004

L16 ANSWER 10 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2003-16046 BIOTECHDS

TITLE: New nucleic acid constructs comprising a region encoding a  
chimeric polypeptide fused to an apoptosis signaling  
molecule, and a region encoding an element directing  
polypeptide **expression**, useful for down-regulating  
angiogenesis;

adeno virus vector-mediated Fas-C chimeric protein gene  
transfer and **expression** in endothelial cell for  
use in cancer gene therapy

AUTHOR: HARATS D; GREENBERGER S

PATENT ASSIGNEE: VASCULAR BIOGENICS LTD

PATENT INFO: WO 2003033514 24 Apr 2003

APPLICATION INFO: WO 2002-IL339 1 May 2002

PRIORITY INFO: US 2001-330118 19 Oct 2001; US 2001-330118 19 Oct 2001

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2003-393499 [37]

L16 ANSWER 11 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 2004:99397 BIOSIS

DOCUMENT NUMBER: PREV200400100947

TITLE: G protein-coupled receptor **kinase** interaction  
with Hsp90 mediates **kinase** maturation.

AUTHOR(S): Luo, Jiansong; Benovic, Jeffrey L. [Reprint Author]

CORPORATE SOURCE: Department of Microbiology and Immunology, Kimmel Cancer  
Center, Thomas Jefferson University, Philadelphia, PA,  
19107, USA

jeff.benovic@mail.tju.edu

SOURCE: Journal of Biological Chemistry, (December 19 2003) Vol.  
278, No. 51, pp. 50908-50914. print.

CODEN: JBCHA3. ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 18 Feb 2004

Last Updated on STN: 18 Feb 2004

L16 ANSWER 12 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2004:65664 BIOSIS  
DOCUMENT NUMBER: PREV200400067420  
TITLE: **Serine/threonine kinase**  
Mirk/Dyrk1B is an inhibitor of epithelial cell migration  
and is negatively regulated by the Met adaptor Ran-binding  
protein M.  
AUTHOR(S): Zou, Yonglong; Lim, Seunghwan; Lee, Kangmoon; Deng,  
Xiaobing; Friedman, Eileen [Reprint Author]  
CORPORATE SOURCE: Pathology Dept., Upstate Medical University, 750 East Adams  
St., 2303 Weiskotten Hall, Syracuse, NY, 13210, USA  
friedmae@mail.upstate.edu  
SOURCE: Journal of Biological Chemistry, (December 5 2003) Vol.  
278, No. 49, pp. 49573-49581. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Jan 2004  
Last Updated on STN: 28 Jan 2004

L16 ANSWER 13 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2004:42592 BIOSIS  
DOCUMENT NUMBER: PREV200400043744  
TITLE: Structural insights and biological effects of glycogen  
synthase **kinase** 3-specific inhibitor AR-A014418.  
AUTHOR(S): Bhat, Ratan [Reprint Author]; Xue, Yafeng; Berg, Stefan;  
Hellberg, Sven; Ormo, Mats; Nilsson, Yvonne; Radesater,  
Ann-Cathrin; Jerning, Eva; Markgren, Per-Olof; Borgegard,  
Thomas; Nylof, Martin; Gimenez-Cassina, Alfredo; Hernandez,  
Felix; Lucas, Jose J.; Diaz-Nido, Javier; Avila, Jesus  
CORPORATE SOURCE: Research DMPK, AstraZeneca R and D Sodertalje, Bldg.  
231:213B, 15185, Sodertalje, Sweden  
ratan.bhat@astrazeneca.com  
SOURCE: Journal of Biological Chemistry, (November 14 2003) Vol.  
278, No. 46, pp. 45937-45945. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 14 Jan 2004  
Last Updated on STN: 14 Jan 2004

L16 ANSWER 14 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2003:418400 BIOSIS  
DOCUMENT NUMBER: PREV200300418400  
TITLE: Inactivation of integrin-linked **kinase** induces  
aberrant tau phosphorylation via sustained activation of  
glycogen synthase **kinase** 3beta in N1E-115  
neuroblastoma cells.  
AUTHOR(S): Ishii, Toshiaki [Reprint Author]; Furuoka, Hidefumi; Muroi,  
Yoshikage; Nishimura, Masakazu  
CORPORATE SOURCE: Department of Pathobiological Science, Obihiro University  
of Agriculture and Veterinary Medicine, Obihiro, Hokkaido,  
080-8555, Japan  
ishii@obihiro.ac.jp  
SOURCE: Journal of Biological Chemistry, (July 18 2003) Vol. 278,  
No. 29, pp. 26970-26975. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Sep 2003  
Last Updated on STN: 10 Sep 2003

L16 ANSWER 15 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 ACCESSION NUMBER: 2003:375108 BIOSIS  
 DOCUMENT NUMBER: PREV200300375108  
 TITLE: CK2 phosphorylation of the armadillo repeat region of  
 beta-catenin potentiates Wnt signaling.  
 AUTHOR(S): Song, Diane H.; Dominguez, Isabel; Mizuno, Junko; Kaut,  
 Maurya; Mohr, Scott C.; Seldin, David C. [Reprint Author]  
 CORPORATE SOURCE: Boston Medical Center, 650 Albany St., Boston, MA, 02118,  
 USA  
 dseldin@medicine.bu.edu  
 SOURCE: Journal of Biological Chemistry, (June 27 2003) Vol. 278,  
 No. 26, pp. 24018-24025. print.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 13 Aug 2003  
 Last Updated on STN: 13 Aug 2003

L16 ANSWER 16 OF 126 MEDLINE on STN DUPLICATE 2  
 ACCESSION NUMBER: 2003219176 MEDLINE  
 DOCUMENT NUMBER: PubMed ID: 12624098  
 TITLE: The inhibitory gamma subunit of the type 6 retinal cGMP  
 phosphodiesterase functions to link c-Src and  
 G-protein-coupled receptor kinase 2 in a  
 signaling unit that regulates p42/p44 mitogen-activated  
 protein kinase by epidermal growth factor.  
 AUTHOR: Wan Kah Fei; Sami Balwinder S; Tate Rothwelle; Waters  
 Catherine; Pyne Nigel J  
 CORPORATE SOURCE: Department of Physiology and Pharmacology, Strathclyde  
 Institute for Biomedical Sciences, University of  
 Strathclyde, 27 Taylor Street, Glasgow G4 0NR, Scotland,  
 United Kingdom.  
 SOURCE: Journal of biological chemistry, (2003 May 16) 278 (20)  
 18658-63.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200306  
 ENTRY DATE: Entered STN: 20030513  
 Last Updated on STN: 20030626  
 Entered Medline: 20030625

L16 ANSWER 17 OF 126 MEDLINE on STN DUPLICATE 3  
 ACCESSION NUMBER: 2003197406 MEDLINE  
 DOCUMENT NUMBER: PubMed ID: 12571245  
 TITLE: Actin binding of human LIM and SH3 protein is  
 regulated by cGMP- and cAMP-dependent protein  
 kinase phosphorylation on serine 146.  
 AUTHOR: Butt Elke; Gambaryan Stepan; Gottfert Nina; Galler Annette;  
 Marcus Katrin; Meyer Helmut E  
 CORPORATE SOURCE: Institute of Clinical Biochemistry and Pathobiochemistry,  
 University of Wurzburg, Josef-Schneider-Strasse 2, D-97080  
 Wurzburg, Germany.. butt@klin-biochem.uni-wuerzburg.de  
 SOURCE: Journal of biological chemistry, (2003 May 2) 278 (18)  
 15601-7.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200306  
 ENTRY DATE: Entered STN: 20030429



Last Updated on STN: 20030618  
Entered Medline: 20030617

L16 ANSWER 18 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:613461 HCAPLUS  
DOCUMENT NUMBER: 139:259344  
TITLE: DNA synthesis and neuronal apoptosis caused by  
familial Alzheimer disease mutants of the amyloid  
precursor protein are mediated by the p21 activated  
**kinase** PAK3  
AUTHOR(S): McPhie, Donna L.; Coopersmith, Robert; Hines-Peralta,  
Andrew; Chen, Yuzhi; Ivins, Kathryn J.; Manly, Susan  
P.; Kozlowski, Michael R.; Neve, Kim A.; Neve, Rachael  
L.  
CORPORATE SOURCE: Department of Psychiatry, Harvard Medical School and  
McLean Hospital, Belmont, MA, 02478, USA  
SOURCE: Journal of Neuroscience (2003), 23(17), 6914-6927  
CODEN: JNRSDS; ISSN: 0270-6474  
PUBLISHER: Society for Neuroscience  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 19 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:731257 HCAPLUS  
DOCUMENT NUMBER: 140:55530  
TITLE: Comparative studies of a new subfamily of  
**human Ste20-like kinases:**  
homodimerization, subcellular localization, and  
selective activation of MKK3 and p38  
AUTHOR(S): Yustein, Jason T.; Xia, Liang; Kahlenburg, J.  
Michelle; Robinson, Dan; Templeton, Dennis; Kung,  
Hsing-Jien  
CORPORATE SOURCE: Department of Molecular Biology and Microbiology, Case  
Western Reserve University, Cleveland, OH, 44106-4960,  
USA  
SOURCE: Oncogene (2003), 22(40), 6129-6141  
CODEN: ONCNES; ISSN: 0950-9232  
PUBLISHER: Nature Publishing Group  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 20 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 2003:154102 BIOSIS  
DOCUMENT NUMBER: PREV200300154102  
TITLE: The **STE20 kinase** HGK is broadly **expressed**  
in **human** tumor cells and can modulate cellular  
transformation, invasion, and adhesion.  
AUTHOR(S): Wright, Jocelyn H. [Reprint Author]; Wang, Xueyan; Manning,  
Gerard; LaMere, Brandon J.; Le, Phuong; Zhu, Shirley;  
Khatry, Deepak; Flanagan, Peter M.; Buckley, Sharon D.;  
Whyte, David B.; Howlett, Anthony R.; Bischoff, James R.;  
Lipson, Kenneth E.; Jallal, Bahija  
CORPORATE SOURCE: Sugan, Inc., South San Francisco, CA, 94080, USA  
jocelyn-wright@sugan.com  
SOURCE: Molecular and Cellular Biology, (March 2003) Vol. 23, No.  
6, pp. 2068-2082. print.  
ISSN: 0270-7306 (ISSN print).  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 26 Mar 2003

Last Updated on STN: 26 Mar 2003

L16 ANSWER 21 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:970328 HCAPLUS  
DOCUMENT NUMBER: 140:108559  
TITLE: RIFLE: A novel ring zinc finger-leucine-rich repeat  
containing protein, regulates select cell adhesion  
molecules in PC12 cells  
AUTHOR(S): Li, Baolin; Su, Yuan; Ryder, John; Yan, Lei; Na,  
Songqing; Ni, Binhui  
CORPORATE SOURCE: Lilly Research Laboratories, Eli Lilly and Company,  
Indianapolis, IN, 46285, USA  
SOURCE: Journal of Cellular Biochemistry (2003), 90(6),  
1224-1241  
CODEN: JCEBD5; ISSN: 0730-2312  
PUBLISHER: Wiley-Liss, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 22 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:512497 HCAPLUS  
DOCUMENT NUMBER: 139:177473  
TITLE: JNK-mediated BIM phosphorylation potentiates  
BAX-dependent apoptosis  
AUTHOR(S): Putcha, Girish V.; Le, Siyuan; Frank, Stephan;  
Besirli, Cagri G.; Clark, Kim; Chu, Boyang; Alix,  
Shari; Youle, Richard J.; LaMarche, Art; Maroney, Anna  
C.; Johnson, Eugene M., Jr.  
CORPORATE SOURCE: Department of Neurology and Department of Molecular  
Biology and Pharmacology, Washington University School  
of Medicine, Saint Louis, MO, 63110, USA  
SOURCE: Neuron (2003), 38(6), 899-914  
CODEN: NERNET; ISSN: 0896-6273  
PUBLISHER: Cell Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 23 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2003:636191 SCISEARCH  
THE GENUINE ARTICLE: 703MT  
TITLE: Analysis of promoter hypermethylation of death-associated  
protein kinase and p16 tumor suppressor genes in  
actinic keratoses and squamous cell carcinomas  
of the skin  
AUTHOR: Tyler L N; Ai L B; Zuo C L; Fan C Y; Smoller B R (Reprint)  
CORPORATE SOURCE: Univ Arkansas Med Sci, Dept Pathol, 4301 W Markham, Slot  
517, Little Rock, AR 72205 USA (Reprint); Univ Arkansas  
Med Sci, Dept Pathol, Little Rock, AR 72205 USA; Univ  
Arkansas Med Sci, Dept Dermatol, Little Rock, AR 72205  
USA; John L McClellan Mem Vet Adm Hosp, Little Rock, AR  
USA  
COUNTRY OF AUTHOR: USA  
SOURCE: MODERN PATHOLOGY, (JUL 2003) Vol. 16, No. 7, pp. 660-664.  
Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST,  
PHILADELPHIA, PA 19106-3621 USA.  
ISSN: 0893-3952.  
DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 37

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*



L16 ANSWER 24 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 ACCESSION NUMBER: 2003:501507 BIOSIS  
 DOCUMENT NUMBER: PREV200300497958  
 TITLE: Thr55 phosphorylation by ERK2 is related to  
 doxorubicin-induced p53 activation and cellular apoptosis.  
 AUTHOR(S): Yeh, Pei Yen [Reprint Author]; Chuang, Shuang-En; Yeh,  
 Kun-Huei; Song, Ying-Chyi; Chang, Ling-Yuan; Cheng, Ann-Lii  
 CORPORATE SOURCE: Cancer Research Center, Dept. of Oncology, National Taiwan  
 University Hospital, Taipei, Taiwan  
 SOURCE: Proceedings of the American Association for Cancer Research  
 Annual Meeting, (July 2003) Vol. 44, pp. 657. print.  
 Meeting Info.: 94th Annual Meeting of the American  
 Association for Cancer Research. Washington, DC, USA. July  
 11-14, 2003.  
 ISSN: 0197-016X.  
 DOCUMENT TYPE: Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 29 Oct 2003  
 Last Updated on STN: 29 Oct 2003

L16 ANSWER 25 OF 126 MEDLINE on STN DUPLICATE 4  
 ACCESSION NUMBER: 2003556714 MEDLINE  
 DOCUMENT NUMBER: PubMed ID: 14637150  
 TITLE: Transforming growth factor-beta1 stimulated protein  
 kinase B serine-473 and focal adhesion  
 kinase tyrosine phosphorylation dependent on cell  
 adhesion in human hepatocellular  
 carcinoma SMMC-7721 cells.  
 AUTHOR: Xu Zhen; Ma Dong-zhu; Wang Li-ying; Su Jian-min; Zha  
 Xi-liang  
 CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, Ministry  
 of Education, Shanghai Medical College, Fudan University,  
 Shanghai, 200032, China.  
 SOURCE: Biochemical and biophysical research communications, (2003  
 Dec 12) 312 (2) 388-96.  
 Journal code: 0372516. ISSN: 0006-291X.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200402  
 ENTRY DATE: Entered STN: 20031126  
 Last Updated on STN: 20040221  
 Entered Medline: 20040220

L16 ANSWER 26 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
 ACCESSION NUMBER: 2003:269810 SCISEARCH  
 THE GENUINE ARTICLE: 657LQ  
 TITLE: Anticancer potential of curcumin: Preclinical and clinical  
 studies  
 AUTHOR: Aggarwal B B (Reprint); Kumar A; Bharti A C  
 CORPORATE SOURCE: Univ Texas, MD Anderson Canc Ctr, Cytokine Res Sect, Dept  
 Bioimmunotherapy, 1515 Holcombe Blvd, Box 143, Houston, TX  
 77030 USA (Reprint); Univ Texas, MD Anderson Canc Ctr,  
 Cytokine Res Sect, Dept Bioimmunotherapy, Houston, TX  
 77030 USA  
 COUNTRY OF AUTHOR: USA  
 SOURCE: ANTICANCER RESEARCH, (JAN-FEB 2003) Vol. 23, No. 1A, pp.  
 363-398.  
 Publisher: INT INST ANTICANCER RESEARCH, EDITORIAL OFFICE  
 1ST KM KAPANDRITIOU-KALAMOU RD KAPANDRITI, PO BOX 22,  
 ATHENS 19014, GREECE.

ISSN: 0250-7005.  
DOCUMENT TYPE: General Review; Journal  
LANGUAGE: English  
REFERENCE COUNT: 336  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 27 OF 126 MEDLINE on STN DUPLICATE 5  
ACCESSION NUMBER: 2003084666 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12596061  
TITLE: **Expression** of integrin-linked kinase is closely correlated with invasion and metastasis of gastric carcinoma.  
AUTHOR: Ito Reiko; Oue Naohide; Zhu Xudong; Yoshida Kazuhiro; Nakayama Hirofumi; Yokozaki Hiroshi; Yasui Wataru  
CORPORATE SOURCE: Department of Molecular Pathology, Hiroshima University Graduate School of Biomedical Sciences, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan.  
SOURCE: Virchows Archiv : an international journal of pathology, (2003 Feb) 442 (2) 118-23.  
Journal code: 9423843. ISSN: 0945-6317.  
PUB. COUNTRY: Germany: Germany, Federal Republic of  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200304  
ENTRY DATE: Entered STN: 20030222  
Last Updated on STN: 20030423  
Entered Medline: 20030422

L16 ANSWER 28 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2004:202345 BIOSIS  
DOCUMENT NUMBER: PREV200400202888  
TITLE: Cdk5 and tau phosphorylation during apoptosis in mouse brain cortical cells.  
AUTHOR(S): Shelton, S. B. [Reprint Author]; Krishnamurthy, P. K. [Reprint Author]; Johnson, G. V. W. [Reprint Author]  
CORPORATE SOURCE: Psychiatry, Univ. Alabama-Birmingham, Birmingham, AL, USA  
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary Planner, (2003) Vol. 2003, pp. Abstract No. 628.5.  
<http://sfn.scholarone.com>. e-file.  
Meeting Info.: 33rd Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 08-12, 2003.  
Society of Neuroscience.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 14 Apr 2004  
Last Updated on STN: 14 Apr 2004

L16 ANSWER 29 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 6  
ACCESSION NUMBER: 2003-01894 BIOTECHDS  
TITLE: Novel polynucleotide encoding human proteins that are structurally similar to animal kinases, useful for drug screening, diagnosis, in gene therapy of disorders and diseases e.g. cancer and pharmacogenomic applications; recombinant enzyme protein production and sense and antisense sequence use in disease therapy and gene therapy  
AUTHOR: YU X; MIRANDA M; FRIDDLE C J  
PATENT ASSIGNEE: LEXICON GENETICS INC  
PATENT INFO: WO 2002059325 1 Aug 2002  
APPLICATION INFO: WO 2001-US50497 20 Dec 2001  
PRIORITY INFO: US 2000-258335 27 Dec 2000; US 2000-258335 27 Dec 2000

DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 2002-599796 [64]

L16 ANSWER 30 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
DUPLICATE 7

ACCESSION NUMBER: 2002-12398 BIOTECHDS

TITLE: Novel polynucleotide encoding novel **human** protein sharing structural similarity with animal **kinases** e.g. **serine-threonine**, calcium/calmodulin-dependent, and myosin light chain **kinases**, useful as probes and primers; vector-mediated gene transfer, **expression** in host cell, antibody, antisense oligonucleotide and ribozyme for **recombinant** protein production, drug screening and gene therapy

AUTHOR: FRIDDLE C J; HILBUN E; NEPOMNICHY B; HU Y

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO: WO 2002018555 7 Mar 2002

APPLICATION INFO: WO 2000-US26776 31 Aug 2000

PRIORITY INFO: US 2000-229280 31 Aug 2000

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2002-292200 [33]

L16 ANSWER 31 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2003-02175 BIOTECHDS

TITLE: New WEE1-like **serine/threonine** protein **kinase** polypeptide and polynucleotide, useful for modulating the activity of the protein **kinase** to treat cancer, nervous system disorders or cardiovascular disorders; vector-mediated **recombinant** protein-**kinase** gene transfer and **expression** in COS-1 for disease diagnosis and gene therapy

AUTHOR: KOEHLER R H

PATENT ASSIGNEE: BAYER AG

PATENT INFO: WO 2002061057 8 Aug 2002

APPLICATION INFO: WO 2002-EP912 30 Jan 2002

PRIORITY INFO: US 2001-334974 4 Dec 2001; US 2001-265352 1 Feb 2001

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2002-619243 [66]

L16 ANSWER 32 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2003-00776 BIOTECHDS

TITLE: Novel polynucleotides encoding **human** proteins that are structurally related to animal **kinases**, useful for drug screening, diagnosis and in gene therapy of biological disorders; vector-mediated **recombinant** protein gene transfer and **expression** in host cell for use in drug screening and nootropic disease and mental disorder diagnosis and gene therapy

AUTHOR: TURNER C A; MATHUR B; FRIDDLE C J

PATENT ASSIGNEE: LEXICON GENETICS INC

PATENT INFO: WO 2002048333 20 Jun 2002

APPLICATION INFO: WO 2001-US49068 12 Dec 2001

PRIORITY INFO: US 2001-289422 8 May 2001; US 2000-255103 12 Dec 2000

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 2002-583505 [62]

L16 ANSWER 33 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2002-19916 BIOTECHDS  
 TITLE: A **human** MDM2 nucleic acid molecule useful for  
 diagnosing neoplasia or the potential for neoplastic  
 transformation;  
 antisense RNA for use in tumor gene therapy  
 AUTHOR: KINZLER K W; VOGELSTEIN B  
 PATENT ASSIGNEE: UNIV JOHNS HOPKINS  
 PATENT INFO: US 6399755 4 Jun 2002  
 APPLICATION INFO: US 1992-170159 7 Apr 1992  
 PRIORITY INFO: US 1998-170159 13 Oct 1998  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 OTHER SOURCE: WPI: 2002-535988 [57]

L16 ANSWER 34 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 ACCESSION NUMBER: 2002-17807 BIOTECHDS  
 TITLE: Nucleic acid molecules encoding calcium/calmodulin-dependent  
 protein **kinases**, useful for preventing diagnosing  
 and treating e.g. cancers, psoriasis and inflammation;  
**recombinant** protein production by  
 vector-mediated gene transfer and **expression** in  
 host cell, useful for gene therapy  
 AUTHOR: YE J; YAN C; DI FRANCESCO V; BEASLEY E M  
 PATENT ASSIGNEE: PE CORP NY  
 PATENT INFO: US 6387677 14 May 2002  
 APPLICATION INFO: US 2001-800960 8 Mar 2001  
 PRIORITY INFO: US 2001-800960 8 Mar 2001  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 OTHER SOURCE: WPI: 2002-478444 [51]

L16 ANSWER 35 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:793831 HCAPLUS  
 DOCUMENT NUMBER: 137:305800  
 TITLE: Protein, gene and cDNA sequences of a novel  
**human** protein **kinase** related to  
**serine/threonine kinase**  
 and their uses in drug screening  
 INVENTOR(S): Webster, Marion; Yan, Chunhua; Di Francesco,  
 Valentina; Beasley, Ellen M.  
 PATENT ASSIGNEE(S): PE Corporation (NY), USA  
 SOURCE: PCT Int. Appl., 101 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081727	A2	20021017	WO 2002-US10156	20020402
WO 2002081727	A3	20030710		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 6500656	B1	20021231	US 2001-873404	20010605
EP 1385865	A2	20040204	EP 2002-763884	20020402

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 PRIORITY APPLN. INFO.: US 2001-824583 A 20010403  
 US 2001-873404 A 20010605  
 WO 2002-US10156 W 20020402

L16 ANSWER 36 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:293825 HCAPLUS  
 DOCUMENT NUMBER: 136:321268  
 TITLE: Protein and cDNA sequences of **human**  
**kinase** sequence homologs  
 INVENTOR(S): Turner, C. Alexander, Jr.; Mathur, Brian  
 PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA  
 SOURCE: PCT Int. Appl., 41 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031129	A2	20020418	WO 2001-US32010	20011011
WO 2002031129	A3	20030206		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002013183	A5	20020422	AU 2002-13183	20011011
US 2002128458	A1	20020912	US 2001-975326	20011011
US 6476210	B2	20021105		
US 2003023063	A1	20030130	US 2002-217357	20020809
US 6610537	B2	20030826		
US 2003207319	A1	20031106	US 2003-462887	20030617
PRIORITY APPLN. INFO.: US 2000-239821P P 20001012 US 2001-975326 A1 20011011 WO 2001-US32010 W 20011011 US 2002-217357 A3 20020809				

L16 ANSWER 37 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:157957 HCAPLUS  
 DOCUMENT NUMBER: 136:195349  
 TITLE: Protein, gene and cDNA sequences of **human**  
 protein **kinase** sequence homolog and  
 diagnostic and therapeutic uses thereof  
 INVENTOR(S): Yan, Chunhua; Ye, Jane; Ketchum, Karen A.; Di  
 Francesco, Valentina; Beasley, Ellen M.  
 PATENT ASSIGNEE(S): Applera Corporation, USA  
 SOURCE: PCT Int. Appl., 81 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016567	A2	20020228	WO 2001-US26389	20010824
WO 2002016567	A3	20030130		



W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002076783 A1 20020620 US 2001-810671 20010319  
US 6455291 B2 20020924  
AU 2001086687 A5 20020304 AU 2001-86687 20010824  
EP 1313844 A2 20030528 EP 2001-966150 20010824  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
US 2002119548 A1 20020829 US 2002-109854 20020401  
US 6630337 B2 20031007  
US 2003134319 A1 20030717 US 2003-339656 20030110  
US 6733978 B2 20040511

PRIORITY APPLN. INFO.:

US 2000-227470P P 20000824  
US 2001-810671 A 20010319  
WO 2001-US26389 W 20010824  
US 2002-109854 A3 20020401

L16 ANSWER 38 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:941845 HCAPLUS

DOCUMENT NUMBER: 138:21334

TITLE: Protein, gene and cDNA sequences of a novel  
human protein kinase related to  
serine/threonine kinase  
and their uses in drug screening

INVENTOR(S): Yan, Chunhua; Li, Zhenya; Neelam, Beena; Difrancesco,  
Valentina; Beasley, Ellen M.

PATENT ASSIGNEE(S): PE Corporation (Ny), USA

SOURCE: U.S., 107 pp.  
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6492156	B1	20021210	US 2001-984890	20011031
US 2003232408	A1	20031218	US 2002-274194	20021021
US 6706511	B2	20040316		
WO 2003038115	A2	20030508	WO 2002-US34869	20021031
WO 2003038115	A3	20040122		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,  
RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,  
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-984890 A3 20011031

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 39 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:937303 HCAPLUS  
 DOCUMENT NUMBER: 138:20443  
 TITLE: Endocrine disruptor screening using DNA chips of  
 endocrine disruptor-responsive genes  
 INVENTOR(S): Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi;  
 Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki,  
 Yuki; Kato, Ikunoshin  
 PATENT ASSIGNEE(S): Takara Bio Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 386 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002355079	A2	20021210	JP 2002-69354	20020313
PRIORITY APPLN. INFO.:			JP 2001-73183	A 20010314
			JP 2001-74993	A 20010315
			JP 2001-102519	A 20010330

L16 ANSWER 40 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:794454 HCAPLUS  
 DOCUMENT NUMBER: 137:274059  
 TITLE: Protein and cDNA sequences of human  
 serine/arginine-rich protein specific  
 serine kinase 212.98 and  
 therapeutical uses  
 INVENTOR(S): Mao, Yumin; Xie, Yi  
 PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep.  
 China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331319	A	20020116	CN 2000-116940	20000630
WO 2002026791	A1	20020404	WO 2001-CN1069	20010629
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			CN 2000-116940	A 20000630

L16 ANSWER 41 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:779935 HCAPLUS  
 DOCUMENT NUMBER: 137:258603  
 TITLE: Human serine kinase  
 receptor-like protein, protein and cDNA sequences,  
 recombinant production and therapeutic uses  
 INVENTOR(S): Mao, Yumin; Xie, Yi  
 PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep.  
 China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.



CODEN: CNXXEV  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331241	A	20020116	CN 2000-116976	20000630
WO 2002012486	A1	20020214	WO 2001-CN1071	20010629
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2002014912	A5	20020218	AU 2002-14912	20010629
PRIORITY APPLN. INFO.: CN 2000-116976 A 20000630 WO 2001-CN1071 W 20010629				

L16 ANSWER 42 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:732013 HCAPLUS  
DOCUMENT NUMBER: 138:1084  
TITLE: Human serine/threonine  
protein kinase-like protein, protein and  
cDNA sequences, recombinant production and  
therapeutic uses  
INVENTOR(S): Mao, Yumin; Xie, Yi  
PATENT ASSIGNEE(S): Shanghai Bode Gene Development Co., Ltd., Peop. Rep.  
China  
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 38 pp.  
CODEN: CNXXEV  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1329157	A	20020102	CN 2000-116663	20000621
PRIORITY APPLN. INFO.: CN 2000-116663 20000621				

L16 ANSWER 43 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2002:315522 BIOSIS  
DOCUMENT NUMBER: PREV200200315522  
TITLE: Akt mediates sequestration of the beta2-adrenergic receptor  
in response to insulin.  
AUTHOR(S): Doronin, Sergey; Shumay, Elena; Wang, Hsien-yu; Malbon,  
Craig C. [Reprint author]  
CORPORATE SOURCE: Pharmacology-HSC, SUNY/Stony Brook, Stony Brook, NY,  
11794-8651, USA  
craig@pharm.som.sunysb.edu  
SOURCE: Journal of Biological Chemistry, (April 26, 2002) Vol. 277,  
No. 17, pp. 15124-15131. print.  
CODEN: JBCHA3. ISSN: 0021-9258.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 May 2002  
Last Updated on STN: 29 May 2002

L16 ANSWER 44 OF 126 MEDLINE on STN

ACCESSION NUMBER: 2002359352 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12102637  
TITLE: Kinetic mechanism for human Rho-Kinase  
II (ROCK-II).  
AUTHOR: Trauger John W; Lin Fen-Fen; Turner Mary S; Stephens  
Jeffrey; LoGrasso Philip V  
CORPORATE SOURCE: Department of Molecular Neuroscience, Merck Research  
Laboratories, 3535 General Atomics Court, San Diego, CA  
92121, USA.  
SOURCE: Biochemistry, (2002 Jul 16) 41 (28) 8948-53.  
Journal code: 0370623. ISSN: 0006-2960.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200208  
ENTRY DATE: Entered STN: 20020710  
Last Updated on STN: 20020827  
Entered Medline: 20020826

L16 ANSWER 45 OF 126 MEDLINE on STN DUPLICATE 8  
ACCESSION NUMBER: 2002677795 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12438260  
TITLE: Promoter hypermethylation of the death-associated protein  
kinase gene in breast cancer is  
associated with the invasive lobular subtype.  
COMMENT: Erratum in: Cancer Res. 2003 Aug 15;63(16):5171  
AUTHOR: Lehmann Ulrich; Celikkaya Gulhan; Hasemeier Britta; Langer  
Florian; Kreipe Hans  
CORPORATE SOURCE: Institute of Pathology, Department of Pathology,  
Medizinische Hochschule Hannover, D-30625 Hannover,  
Germany.. Lehmann.Ulrich@MH-Hannover.de  
SOURCE: Cancer research, (2002 Nov 15) 62 (22) 6634-8.  
Journal code: 2984705R. ISSN: 0008-5472.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200212  
ENTRY DATE: Entered STN: 20021120  
Last Updated on STN: 20021218  
Entered Medline: 20021217

L16 ANSWER 46 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:431766 HCAPLUS  
DOCUMENT NUMBER: 138:53396  
TITLE: Regulation of DNA replication fork genes by  
17 $\beta$ -estradiol  
AUTHOR(S): Lobenhofer, Edward K.; Bennett, Lee; Cable, P. Louann;  
Li, Leping; Bushel, Pierre R.; Afshari, Cynthia A.  
CORPORATE SOURCE: Gene Regulation Group, National Institute of  
Environmental Health Sciences, Research Triangle Park,  
NC, 27709, USA  
SOURCE: Molecular Endocrinology (2002), 16(6), 1215-1229  
CODEN: MOENEN; ISSN: 0888-8809  
PUBLISHER: Endocrine Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 47 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:850858 HCAPLUS  
DOCUMENT NUMBER: 138:134695

TITLE:  $\beta$ -catenin and cyclin D1 expression in human hepatocellular carcinoma  
AUTHOR(S): Ueta, Tsuyoshi; Ikeguchi, Masahide; Hirooka, Yasuaki; Kaibara, Nobuaki; Terada, Tadashi  
CORPORATE SOURCE: The Second Department of Pathology, Faculty of Medicine, Tottori University, Yonago, Japan  
SOURCE: Oncology Reports (2002), 9(6), 1197-1203  
CODEN: OCRPEW; ISSN: 1021-335X  
PUBLISHER: Oncology Reports  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 48 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:795701 HCAPLUS  
DOCUMENT NUMBER: 138:83537  
TITLE: Serine 331 is major site of phosphorylation and desensitization induced by protein kinase C in thromboxane receptor  $\alpha$   
AUTHOR(S): Yan, Feng-Xiang; Yamamoto, Shuichi; Zhou, Hui-Ping; Tai, Hsin-Hsiung; Liao, Duan-Fang  
CORPORATE SOURCE: Institute of Pharmacy and Pharmacology, Nanhua University, Hengyang, 421001, Peop. Rep. China  
SOURCE: Acta Pharmacologica Sinica (2002), 23(10), 952-960  
CODEN: APSCG5; ISSN: 1671-4083  
PUBLISHER: Science Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 49 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2003:7755 BIOSIS  
DOCUMENT NUMBER: PREV200300007755  
TITLE: The docking protein FRS2 $\alpha$  controls a MAP kinase-mediated negative feedback mechanism for signaling by FGF receptors.  
AUTHOR(S): Lax, Irit; Wong, Andy; Lamothe, Betty; Lee, Arnold; Frost, Adam; Hawes, Jessica; Schlessinger, Joseph [Reprint Author]  
CORPORATE SOURCE: Department of Pharmacology, Yale University School of Medicine, New Haven, CT, 06520, USA  
joseph.schlessinger@yale.edu  
SOURCE: Molecular Cell, (October 2002) Vol. 10, No. 4, pp. 709-719. print.  
ISSN: 1097-2765 (ISSN print).  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 18 Dec 2002  
Last Updated on STN: 18 Dec 2002

L16 ANSWER 50 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2002:238186 BIOSIS  
DOCUMENT NUMBER: PREV200200238186  
TITLE: Activation of AKT/PKB in breast cancer predicts a worse outcome among endocrine treated patients.  
AUTHOR(S): Perez-Tenorio, G. [Reprint author]; Stal, O.; Members of the Southeast Sweden Breast Cancer Group  
CORPORATE SOURCE: Department of Biomedicine and Surgery, Division of Oncology, Clinical Research Center, Faculty of Health Sciences, Linkoping University, SE-581 85, Linkoping, Sweden  
gizpe@ibk.liu.se  
SOURCE: British Journal of Cancer, (12 February, 2002) Vol. 86, No.

4, pp. 540-545. print.  
CODEN: BJCAAI. ISSN: 0007-0920.

DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Apr 2002  
Last Updated on STN: 10 Apr 2002

L16 ANSWER 51 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:224694 HCAPLUS  
DOCUMENT NUMBER: 136:382092  
TITLE: Identification and characterization of four novel phosphorylation sites (Ser31, Ser325, Thr336 and Thr366) on LKB1/STK11, the protein kinase mutated in Peutz-Jeghers cancer syndrome  
AUTHOR(S): Sapkota, Gopal P.; Boudeau, Jerome; Deak, Maria; Kieloch, Agnieszka; Morrice, Nick; Alessi, Dario R.  
CORPORATE SOURCE: MRC Protein Phosphorylation Unit, MSI/WTB, University of Dundee, Dundee, DD1 5EH, UK  
SOURCE: Biochemical Journal (2002), 362(2), 481-490  
CODEN: BIJOAK; ISSN: 0264-6021  
PUBLISHER: Portland Press Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 52 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2002:195581 BIOSIS  
DOCUMENT NUMBER: PREV200200195581  
TITLE: Cyclin-dependent kinase 5 prevents neuronal apoptosis by negative regulation of c-Jun N-terminal kinase 3.  
AUTHOR(S): Li, Bing-Sheng; Zhang, Lei; Takahashi, Satoru; Ma, Wu; Jaffe, Howard; Kulkarni, Ashok B.; Pant, Harish C. [Reprint author]  
CORPORATE SOURCE: Laboratory of Neurochemistry, NINDS, NIH, Bethesda, MD, 20892-4130, USA  
panth@ninds.nih.gov  
SOURCE: EMBO (European Molecular Biology Organization) Journal, (February 1, 2002) Vol. 21, No. 3, pp. 324-333. print.  
CODEN: EMJODG. ISSN: 0261-4189.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 13 Mar 2002  
Last Updated on STN: 13 Mar 2002

L16 ANSWER 53 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
ACCESSION NUMBER: 2003-03251 BIOTECHDS  
TITLE: Estrogen regulation of uterine genes in vivo detected by complementary DNAarray;  
gene expression pattern regulation, DNA array and polymerase chain reaction for therapy and pharmacogenetics  
AUTHOR: ANDRADE PM; SILVA IDCG; BORRA RC; DE LIMA GR; BARACAT EC  
CORPORATE SOURCE: Univ Fed Sao Paulo  
LOCATION: Andrade PM, Univ Fed Sao Paulo, Av Dr Altino Arantes 835, Apt 41, BR-04042034 Sao Paulo, Brazil  
SOURCE: HORMONE AND METABOLIC RESEARCH; (2002) 34, 5, 238-244  
ISSN: 0018-5043  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L16 ANSWER 54 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2002:379965 BIOSIS

DOCUMENT NUMBER: PREV200200379965  
TITLE: Different cellular localization, translocation, and insulin-induced phosphorylation of PKBalpha in HepG2 cells and hepatocytes.  
AUTHOR(S): Syed, Noor Afshan; Horner, Kyla Nadine; Misra, Vikram; Khandelwal, Ramji Lal [Reprint author]  
CORPORATE SOURCE: Department of Biochemistry, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK, S7N 5E5, Canada ramji.khandelwal@usask.ca  
SOURCE: Journal of Cellular Biochemistry, (2002) Vol. 86, No. 1, pp. 118-127. print.  
CODEN: JCEBD5. ISSN: 0730-2312.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Jul 2002  
Last Updated on STN: 10 Jul 2002

L16 ANSWER 55 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 2002411066 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 12164932  
TITLE: Ganglioside loss promotes survival primarily by activating integrin-linked kinase/Akt without phosphoinositide 3-OH kinase signaling.  
AUTHOR: Sun Ping; Wang Xiao-Qi; Lopatka Keith; Bangash Suleman; Paller Amy S  
CORPORATE SOURCE: Department of Pediatrics, Children's Memorial Institute for Education and Research, North-western University Medical School, 2300 Children's Plaza, Chicago, IL 60614, U.S.A.  
CONTRACT NUMBER: R01 AR 44619 (NIAMS)  
SOURCE: Journal of investigative dermatology, (2002 Jul) 119 (1) 107-17.  
Journal code: 0426720. ISSN: 0022-202X.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200209  
ENTRY DATE: Entered STN: 20020808  
Last Updated on STN: 20020918  
Entered Medline: 20020917

L16 ANSWER 56 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:440336 HCAPLUS  
DOCUMENT NUMBER: 138:100430  
TITLE: Distinct mechanisms of Taxol-induced serine phosphorylation of the 66-kDa Shc isoform in A549 and RAW 264.7 cells  
AUTHOR(S): Yang, Chia-Ping Huang; Horwitz, Susan Band  
CORPORATE SOURCE: Department of Molecular Pharmacology, Albert Einstein College of Medicine, Bronx, NY, 10461, USA  
SOURCE: Biochimica et Biophysica Acta (2002), 1590(1-3), 76-83  
CODEN: BBACAQ; ISSN: 0006-3002  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 57 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:618177 HCAPLUS  
DOCUMENT NUMBER: 135:191337  
TITLE: Protein and cDNA sequences of novel human kinase homologs and uses thereof in diagnosis, therapy and drug screening



INVENTOR(S): Walke, D. Wade; Hu, Yi; Nepomnichy, Boris; Turner, C.  
 PATENT ASSIGNEE(S): Alexander, Jr.; Zambrowicz, Brian  
 SOURCE: Lexicon Genetics Incorporated, USA  
 PCT Int. Appl., 70 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001061016	A2	20010823	WO 2001-US5356	20010215
WO 2001061016	A3	20020207		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2002038011	A1	20020328	US 2001-783320	20010215
EP 1257652	A2	20021120	EP 2001-912839	20010215
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003531577	T2	20031028	JP 2001-559853	20010215
PRIORITY APPLN. INFO.:			US 2000-183582P	P 20000218
			US 2000-184014P	P 20000222
			WO 2001-US5356	W 20010215

L16 ANSWER 58 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:565235 HCAPLUS

DOCUMENT NUMBER: 135:164088

TITLE: Novel human protein kinases and protein kinase-like enzymes and their diagnostic and therapeutic use

INVENTOR(S): Plowman, Gregory; Whyte, David; Manning, Gerard; Sudarsanam, Sucha; Martinez, Ricardo

PATENT ASSIGNEE(S): Sugan, Inc., USA

SOURCE: PCT Int. Appl., 218 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001055356	A2	20010802	WO 2001-US2337	20010125
WO 2001055356	A3	20020328		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001034544	A5	20010807	AU 2001-34544	20010125
EP 1254214	A2	20021106	EP 2001-906658	20010125
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			

JP 2003520602	T2	20030708	JP 2001-554387	20010125
US 2004048310	A1	20040311	US 2003-182243	20030116
PRIORITY APPLN. INFO.:			US 2000-178078P	P 20000125
			US 2000-179364P	P 20000131
			US 2000-183173P	P 20000217
			US 2000-190162P	P 20000317
			US 2000-193404P	P 20000329
			US 2000-247013P	P 20001113
			WO 2001-US2337	W 20010125

L16 ANSWER 59 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:435241 HCAPLUS  
DOCUMENT NUMBER: 135:41828  
TITLE: Protein and cDNA sequences of a novel **human** protein **kinase** homolog and uses thereof in diagnosis, therapy and drug screening  
INVENTOR(S): Donoho, Gregory; Scoville, John; Turner, C. Alexander, Jr.; Friedrich, Glenn; Zambrowicz, Brian; Abuin, Alejandro; Sands, Arthur T.  
PATENT ASSIGNEE(S): Lexicon Genetics Incorporated, USA  
SOURCE: PCT Int. Appl., 31 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042435	A2	20010614	WO 2000-US33240	20001207
WO 2001042435	A3	20011108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240187	A2	20020918	EP 2000-989231	20001207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003064495	A1	20030403	US 2000-733388	20001207
US 6602698	B2	20030805		
JP 2004504005	T2	20040212	JP 2001-544312	20001207
US 2004014112	A1	20040122	US 2003-446175	20030527
PRIORITY APPLN. INFO.:			US 1999-169428P	P 19991207
			US 2000-733388	A1 20001207
			WO 2000-US33240	W 20001207

L16 ANSWER 60 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:417006 HCAPLUS  
DOCUMENT NUMBER: 135:29886  
TITLE: Protein and cDNA of a **human** protein **kinase** 9 and therapeutic use thereof  
INVENTOR(S): Mao, Yumin; Xie, Yi  
PATENT ASSIGNEE(S): Bioroad Gene Development Ltd. Shanghai, Peop. Rep. China  
SOURCE: PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040298	A1	20010607	WO 2000-CN513	20001127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CN 1298008	A	20010606	CN 1999-124171	19991130
PRIORITY APPLN. INFO.: CN 1999-124171 A 19991130				
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L16 ANSWER 61 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:416993 HCAPLUS  
DOCUMENT NUMBER: 135:41807  
TITLE: Protein and cDNA of a human protein kinase 38 and therapeutic use thereof  
INVENTOR(S): Mao, Yumin; Xie, Yi  
PATENT ASSIGNEE(S): Bioroad Gene Development Ltd. Shanghai, Peop. Rep. China  
SOURCE: PCT Int. Appl., 41 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040285	A1	20010607	WO 2000-CN501	20001127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CN 1298010	A	20010606	CN 1999-124161	19991130
PRIORITY APPLN. INFO.: CN 1999-124161 A 19991130				
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L16 ANSWER 62 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:397023 HCAPLUS  
DOCUMENT NUMBER: 135:30738  
TITLE: Novel human protein kinases and protein kinase-like enzymes and their cDNA sequences  
INVENTOR(S): Plowman, Gregory D.; Whyte, David; Manning, Gerard; Sudarsanam, Sucha; Martinez, Ricardo; Flanagan, Peter; Clary, Douglas  
PATENT ASSIGNEE(S): Sugen, Inc., USA  
SOURCE: PCT Int. Appl., 433 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001038503	A2	20010531	WO 2000-US32085	20001122
WO 2001038503	A3	20020131		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1240194	A2	20020918	EP 2000-982200	20001122
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003514583	T2	20030422	JP 2001-540254	20001122
PRIORITY APPLN. INFO.:			US 1999-167482P	A1 19991124
			WO 2000-US32085	W 20001122

L16 ANSWER 63 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:783499 HCAPLUS

DOCUMENT NUMBER: 136:304881

TITLE: Sak **serine-threonine**  
**kinase** acts as an effector of Tec tyrosine  
**kinase**

AUTHOR(S): Yamashita, Yoshihiro; Kajigaya, Sachiko; Yoshida, Koji; Ueno, Shuichi; Ota, Jun; Ohmine, Ken; Ueda, Masuzu; Miyazato, Akira; Ohya, Ken-Ichi; Kitamura, Toshio; Ozawa, Keiya; Mano, Hiroyuki

CORPORATE SOURCE: Functional Genomics, Jichi Medical School, Tochigi, 329-0498, Japan

SOURCE: Journal of Biological Chemistry (2001), 276(42), 39012-39020

PUBLISHER: CODEN: JBCHA3; ISSN: 0021-9258

AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 64 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2001:240893 SCISEARCH

THE GENUINE ARTICLE: 411AA

TITLE: Identification of the E2A gene products as regulatory targets of the G(1) cyclin-dependent **kinases**

AUTHOR: Chu C; Khotz D S (Reprint)

CORPORATE SOURCE: Mt Sinai Sch Med, Dept Pathol 1194, 1 Gustave Levy Pl, New York, NY 10029 USA (Reprint); Mt Sinai Sch Med, Dept Pathol 1194, New York, NY 10029 USA

COUNTRY OF AUTHOR: USA

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (16 MAR 2001) Vol. 276, No. 11, pp. 8524-8534.

Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814 USA.

ISSN: 0021-9258.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 88

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 65 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:656546 HCAPLUS  
DOCUMENT NUMBER: 135:342325  
TITLE: Transcriptional hyperactivity of **human**  
progesterone receptors is coupled to their  
ligand-dependent down-regulation by mitogen-activated  
protein kinase-dependent phosphorylation of  
**serine** 294  
AUTHOR(S): Shen, Tianjie; Horwitz, Kathryn B.; Lange, Carol A.  
CORPORATE SOURCE: Department of Medicine, The Molecular Biology Program,  
University of Colorado Health Sciences Center, Denver,  
CO, 80262, USA  
SOURCE: Molecular and Cellular Biology (2001), 21(18),  
6122-6131  
CODEN: MCEBD4; ISSN: 0270-7306  
PUBLISHER: American Society for Microbiology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 66 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:295931 HCAPLUS  
DOCUMENT NUMBER: 135:59309  
TITLE: Transcriptional gene **expression** profiles of  
colorectal adenoma, adenocarcinoma, and normal tissue  
examined by oligonucleotide arrays  
AUTHOR(S): Notterman, Daniel A.; Alon, Uri; Sierk, Alexander J.;  
Levine, Arnold J.  
CORPORATE SOURCE: Department of Molecular Biology, Princeton University,  
Princeton, NJ, 08544, USA  
SOURCE: Cancer Research (2001), 61(7), 3124-3130  
CODEN: CNREA8; ISSN: 0008-5472  
PUBLISHER: American Association for Cancer Research  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 67 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 2002:2452 BIOSIS  
DOCUMENT NUMBER: PREV200200002452  
TITLE: Subcellular localization and regulation of BACE in neuronal  
cells and **brain**.  
AUTHOR(S): Han, P. [Reprint author]; Yan, R.; Luo, W. [Reprint  
author]; Honig, G. [Reprint author]; Netzer, W. [Reprint  
author]; Takahashi, R.; Greengard, P. [Reprint author];  
Gouras, G. K. [Reprint author]; Xu, H. [Reprint author]  
CORPORATE SOURCE: Mol. and Cell. Neurosci., Rockefeller University, New York,  
NY, USA  
SOURCE: Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2,  
pp. 2085. print.  
Meeting Info.: 31st Annual Meeting of the Society for  
Neuroscience. San Diego, California, USA. November 10-15,  
2001.  
ISSN: 0190-5295.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Dec 2001  
Last Updated on STN: 25 Feb 2002

L16 ANSWER 68 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2001:525640 BIOSIS  
DOCUMENT NUMBER: PREV200100525640  
TITLE: GABA-A receptor is a novel substrate of PKB/Akt.  
AUTHOR(S): Wang, Y. S. [Reprint author]; Wang, Q. H. [Reprint author];  
Liu, L. D. [Reprint author]; Ahmadian, G. [Reprint author];  
Ju, W. [Reprint author]; Wang, Y. T. [Reprint author]  
CORPORATE SOURCE: Dept Brain and Behavior Research, Hosp Sick Children and  
Univ. of Toronto, Toronto, ON, Canada  
SOURCE: Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1,  
pp. 1283. print.  
Meeting Info.: 31st Annual Meeting of the Society for  
Neuroscience. San Diego, California, USA. November 10-15,  
2001.  
ISSN: 0190-5295.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 14 Nov 2001  
Last Updated on STN: 23 Feb 2002

L16 ANSWER 69 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2001:256010 BIOSIS  
DOCUMENT NUMBER: PREV200100256010  
TITLE: Metastasis suppressor genes.  
AUTHOR(S): Steeg, Patricia S. [Reprint author]  
CORPORATE SOURCE: Laboratory of Pathology, NIH/NCI, 9000 Rockville Pike,  
Building 10, Room 2A33, Bethesda, MD, 20892, USA  
SOURCE: FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A744.  
print.  
Meeting Info.: Annual Meeting of the Federation of American  
Societies for Experimental Biology on Experimental Biology  
2001. Orlando, Florida, USA. March 31-April 04, 2001.  
CODEN: FAJOEC. ISSN: 0892-6638.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 23 May 2001  
Last Updated on STN: 19 Feb 2002

L16 ANSWER 70 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:211830 HCAPLUS  
DOCUMENT NUMBER: 134:349873  
TITLE: Interaction of phospholipase D1 with a casein-  
kinase-2-like serine kinase  
AUTHOR(S): Ganley, Ian G.; Walker, Stephanie J.; Manifava, Maria;  
Li, Donxia; Brown, H. Alex; Ktistakis, Nicholas T.  
CORPORATE SOURCE: Signalling Programme, Babraham Institute, Cambridge,  
CB2 4AT, UK  
SOURCE: Biochemical Journal (2001), 354(2), 369-378  
CODEN: BIJOAK; ISSN: 0264-6021  
PUBLISHER: Portland Press Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 71 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 2001362576 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11424085  
TITLE: Role of AKT kinase in sphingosine-induced  
apoptosis in human hepatoma cells.  
AUTHOR: Chang H C; Tsai L H; Chuang L Y; Hung W C  
CORPORATE SOURCE: Department of Physiology, Kaohsiung Medical University,

SOURCE: Taiwan, Republic of China.  
Journal of cellular physiology, (2001 Aug) 188 (2) 188-93.  
Journal code: 0050222. ISSN: 0021-9541.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200108  
ENTRY DATE: Entered STN: 20010813  
Last Updated on STN: 20010813  
Entered Medline: 20010809

L16 ANSWER 72 OF 126 MEDLINE on STN DUPLICATE 9  
ACCESSION NUMBER: 2002009081 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11325528  
TITLE: Regulation of the ErbB3 binding protein Ebp1 by protein  
kinase C.  
AUTHOR: Lessor T J; Hamburger A W  
CORPORATE SOURCE: Molecular and Cellular Biology Program, University of  
Maryland, Baltimore, MD 21201, USA.  
CONTRACT NUMBER: RO1 CA76047 (NCI)  
SOURCE: Molecular and cellular endocrinology, (2001 Apr 25) 175  
(1-2) 185-91.  
Journal code: 7500844. ISSN: 0303-7207.  
PUB. COUNTRY: Ireland  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200112  
ENTRY DATE: Entered STN: 20020121  
Last Updated on STN: 20020121  
Entered Medline: 20011213

L16 ANSWER 73 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:607376 HCAPLUS  
DOCUMENT NUMBER: 135:354307  
TITLE: Serine 331 Is the Major Site of Receptor  
Phosphorylation Induced by Agents That Activate  
Protein Kinase G in HEK 293 Cells  
Overexpressing Thromboxane Receptor  $\alpha$   
AUTHOR(S): Yamamoto, Shuichi; Yan, Fengxiang; Zhou, Huiping; Tai,  
Hsin-Hsiung  
CORPORATE SOURCE: Division of Pharmaceutical Sciences, College of  
Pharmacy, University of Kentucky, Lexington, KY,  
40536-0082, USA  
SOURCE: Archives of Biochemistry and Biophysics (2001),  
393(1), 97-105  
CODEN: ABBIA4; ISSN: 0003-9861  
PUBLISHER: Academic Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 74 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:490592 HCAPLUS  
DOCUMENT NUMBER: 136:162056  
TITLE: Highly abundant genes in the transcriptosome of  
human and baboon CD34 antigen-positive bone  
marrow cells  
AUTHOR(S): Gomes, Ignatius; Sharma, Tiffany T.; Mahmud, Nadim;  
Kapp, Jeffrey D.; Edassery, Seby; Fulton, Noreen;  
Liang, Jie; Hoffman, Ronald; Westbrook, Carol A.  
CORPORATE SOURCE: Department of Medicine and Department of



Bioengineering, University of Illinois, Chicago, IL,  
USA  
SOURCE: Blood (2001), 98(1), 93-99  
CODEN: BLOOAW; ISSN: 0006-4971  
PUBLISHER: American Society of Hematology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 75 OF 126 MEDLINE on STN DUPLICATE 10  
ACCESSION NUMBER: 2000428458 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 10818091  
TITLE: Tau phosphorylation at serine 396 and  
serine 404 by human recombinant  
tau protein kinase II inhibits tau's ability to  
promote microtubule assembly.  
AUTHOR: Evans D B; Rank K B; Bhattacharya K; Thomsen D R; Gurney M  
E; Sharma S K  
CORPORATE SOURCE: Pharmacia Corporation, Kalamazoo, Michigan 49007, USA.  
SOURCE: Journal of biological chemistry, (2000 Aug 11) 275 (32)  
24977-83.  
Journal code: 2985121R. ISSN: 0021-9258.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200009  
ENTRY DATE: Entered STN: 20000922  
Last Updated on STN: 20020420  
Entered Medline: 20000914

L16 ANSWER 76 OF 126 MEDLINE on STN DUPLICATE 11  
ACCESSION NUMBER: 2001040267 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11029056  
TITLE: Phosphorylation-dependent localization of  
microtubule-associated protein MAP2c to the actin  
cytoskeleton.  
AUTHOR: Ozer R S; Halpain S  
CORPORATE SOURCE: Department of Cell Biology, The Scripps Research Institute,  
La Jolla, California 92037, USA.  
CONTRACT NUMBER: MH-12504 (NIMH)  
MH-50861 (NIMH)  
SOURCE: Molecular biology of the cell, (2000 Oct) 11 (10) 3573-87.  
Journal code: 9201390. ISSN: 1059-1524.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200012  
ENTRY DATE: Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20001207

L16 ANSWER 77 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2000:302130 BIOSIS  
DOCUMENT NUMBER: PREV200000302130  
TITLE: Clavilactones, a novel class of tyrosine kinase  
inhibitors of fungal origin.  
AUTHOR(S): Cassinelli, Giuliana; Lanzi, Cinzia [Reprint author];  
Pensa, Tiziana; Gambetta, Romolo A.; Nasini, Gianluca;  
Cuccuru, Giuditta; Cassinis, Marco; Pratesi, Graziella;  
Polizzi, Donatella; Tortoreto, Monica; Zunino, Franco  
CORPORATE SOURCE: Oncologia Sperimentale B, Istituto Nazionale Tumori, via

SOURCE: Venezian 1, 20133, Milan, Italy  
Biochemical Pharmacology, (June 15, 2000) Vol. 59, No. 12,  
pp. 1539-1547. print.  
CODEN: BCPA6. ISSN: 0006-2952.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 12 Jul 2000  
Last Updated on STN: 7 Jan 2002

L16 ANSWER 78 OF 126 MEDLINE on STN DUPLICATE 12  
ACCESSION NUMBER: 2001062074 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 10995806  
TITLE: Hypermethylation of the death-associated protein (DAP)  
kinase promoter and aggressiveness in stage I  
non-small-cell lung cancer.  
COMMENT: Comment in: J Natl Cancer Inst. 2000 Sep 20;92(18):1460-1.  
PubMed ID: 10995795  
AUTHOR: Tang X; Khuri F R; Lee J J; Kemp B L; Liu D; Hong W K; Mao  
L  
CORPORATE SOURCE: Molecular Biology Laboratory, Department of Thoracic/Head  
and Neck Medical Oncology, The University of Texas M. D.  
Anderson Cancer Center, Houston, TX 77030, USA.  
CONTRACT NUMBER: P30CA16620 (NCI)  
U19CA68437 (NCI)  
SOURCE: Journal of the National Cancer Institute, (2000 Sep 20) 92  
(18) 1511-6.  
Journal code: 7503089. ISSN: 0027-8874.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200012  
ENTRY DATE: Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20001228

L16 ANSWER 79 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 2000122566 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 10655479  
TITLE: Phosphorylation of human progesterone receptors  
at serine-294 by mitogen-activated protein  
kinase signals their degradation by the 26S  
proteasome.  
AUTHOR: Lange C A; Shen T; Horwitz K B  
CORPORATE SOURCE: Department of Medicine, The Molecular Biology Program, and  
The Colorado Cancer Center, University of Colorado Health  
Sciences Center, Denver, CO 80262, USA.  
CONTRACT NUMBER: CA26869 (NCI)  
DK48238 (NIDDK)  
DK53825 (NIDDK)  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America, (2000 Feb 1) 97 (3) 1032-7.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200003  
ENTRY DATE: Entered STN: 20000314  
Last Updated on STN: 20000314  
Entered Medline: 20000302

L16 ANSWER 80 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:398678 HCAPLUS



DOCUMENT NUMBER: 133:115255  
TITLE: Serine residues 1177/78/82 of the insulin  
receptor are required for substrate phosphorylation  
but not autophosphorylation  
AUTHOR(S): Bossenmaier, Birgit; Strack, Volker; Stoyanov,  
Borislav; Krutzfeldt, Jan; Beck, Alexander; Lehmann,  
Rainer; Kellerer, Monika; Klein, Harald; Ullrich,  
Axel; Lammers, Reiner; Haring, Hans-Ulrich  
CORPORATE SOURCE: Roche Diagnostics, Penzberg, Germany  
SOURCE: Diabetes (2000), 49(6), 889-895  
CODEN: DIAEAZ; ISSN: 0012-1797  
PUBLISHER: American Diabetes Association  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 81 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 2001087357 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11036205  
TITLE: Induction of vascular endothelial growth factor receptors  
and phosphatidylinositol 3'-kinase/Akt signaling  
by global cerebral ischemia in the rat.  
AUTHOR: Jin K L; Mao X O; Nagayama T; Goldsmith P C; Greenberg D A  
CORPORATE SOURCE: Buck Center for Research in Aging, PO Box 638, CA  
94948-0638, Novato, USA.  
CONTRACT NUMBER: NS37695 (NINDS)  
SOURCE: Neuroscience, (2000) 100 (4) 713-7.  
Journal code: 7605074. ISSN: 0306-4522.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200101  
ENTRY DATE: Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20010118

L16 ANSWER 82 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:257655 HCAPLUS  
DOCUMENT NUMBER: 133:40884  
TITLE: LKB1, a novel serine/threonine  
protein kinase and potential tumour  
suppressor, is phosphorylated by cAMP-dependent  
protein kinase (PKA) and prenylated in vivo  
AUTHOR(S): Collins, Sean P.; Reoma, Junewai L.; Gamm, David M.;  
Uhler, Michael D.  
CORPORATE SOURCE: Department of Biological Chemistry, University of  
Michigan, Ann Arbor, MI, 48109, USA  
SOURCE: Biochemical Journal (2000), 345(3), 673-680  
CODEN: BIJOAK; ISSN: 0264-6021  
PUBLISHER: Portland Press Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 83 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN  
ACCESSION NUMBER: 2001008251 EMBASE  
TITLE: Inhibition of growth-factor-induced phosphorylation and  
activation of protein kinase B/Akt by atypical  
protein kinase C in breast cancer  
cells.

AUTHOR: Mao M.; Fang X.; Lu Y.; LaPushin R.; Bast R.C. Jr.; Mills G.B.  
CORPORATE SOURCE: G.B. Mills, Department of Molecular Therapeutics, Box 317, Univ. TX M. D. Anderson Cancer Ctr., 1515 Holcombe Boulevard, Houston, TX 77030, United States.  
gmills@notes.mdacc.tmc.edu  
SOURCE: Biochemical Journal, (1 Dec 2000) 352/2 (475-482).  
Refs: 45  
ISSN: 0264-6021 CODEN: BIJOAK  
COUNTRY: United Kingdom  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 016 Cancer  
029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 84 OF 126 MEDLINE on STN DUPLICATE 13  
ACCESSION NUMBER: 2001092126 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 11023825  
TITLE: DNA repair protein O6-alkylguanine-DNA alkyltransferase is phosphorylated by two distinct and novel protein kinases in human brain tumour cells.  
AUTHOR: Mullapudi S R; Ali-Osman F; Shou J; Srivenugopal K S  
CORPORATE SOURCE: Section of Molecular Therapeutics, Department of Neurosurgery, Box 169, The University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030, USA.  
CONTRACT NUMBER: CA 74321 (NCI)  
SOURCE: Biochemical journal, (2000 Oct 15) 351 Pt 2 393-402.  
Journal code: 2984726R. ISSN: 0264-6021.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200101  
ENTRY DATE: Entered STN: 20010322  
Last Updated on STN: 20020420  
Entered Medline: 20010125

L16 ANSWER 85 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
ACCESSION NUMBER: 2000:352215 SCISEARCH  
THE GENUINE ARTICLE: 309WT  
TITLE: The CB1 cannabinoid receptor is coupled to the activation of protein kinase B/Akt  
AUTHOR: delPulgar T; Velasco G; Guzman M (Reprint)  
CORPORATE SOURCE: UNIV COMPLUTENSE, SCH BIOL, DEPT BIOCHEM & MOL BIOL 1, E-28040 MADRID, SPAIN (Reprint); UNIV COMPLUTENSE, SCH BIOL, DEPT BIOCHEM & MOL BIOL 1, E-28040 MADRID, SPAIN  
COUNTRY OF AUTHOR: SPAIN  
SOURCE: BIOCHEMICAL JOURNAL, (15 APR 2000) Vol. 347, Part 2, pp. 369-373.  
Publisher: PORTLAND PRESS, 59 PORTLAND PLACE, LONDON W1N 3AJ, ENGLAND.  
ISSN: 0264-6021.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 38  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 86 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2000:176895 BIOSIS  
DOCUMENT NUMBER: PREV200000176895

TITLE: Polo-like kinase1, a new target for antisense tumor therapy.  
 AUTHOR(S): Elez, Robert [Reprint author]; Piiper, Albrecht [Reprint author]; Giannini, Claudio D. [Reprint author]; Brendel, Martin; Zeuzem, Stefan [Reprint author]  
 CORPORATE SOURCE: Department of Medicine II, J. W. Goethe-Universitaet, Theodor-Stern-Kai 7, Haus 75, 60590, Frankfurt, Germany  
 SOURCE: Biochemical and Biophysical Research Communications, (March 16, 2000) Vol. 269, No. 2, pp. 352-356. print.  
 CODEN: BBRC A9. ISSN: 0006-291X.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 3 May 2000  
 Last Updated on STN: 4 Jan 2002

L16 ANSWER 87 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 2000:524754 BIOSIS  
 DOCUMENT NUMBER: PREV200000524754  
 TITLE: IGF-I-induced activation of Kv1.X channels in embryonic kidney cells in mediated by the serine/threonine kinase SGK1.  
 AUTHOR(S): Huber, S. [Reprint author]; Gamper, N. [Reprint author]; Fillon, S. [Reprint author]; Friedrich, B. [Reprint author]; Klingel, K.; Cohen, P.; Lang, F. [Reprint author]  
 CORPORATE SOURCE: Department of Physiology, University of Tuebingen, Tuebingen, Germany  
 SOURCE: Kidney and Blood Pressure Research, (2000) Vol. 23, No. 3-5, pp. 216-217. print.  
 Meeting Info.: Congress of Nephrology 2000. Vienna, Austria. September 02-05, 2000. Gesellschaft fuer Nephrologie.  
 ISSN: 1420-4096.  
 DOCUMENT TYPE: Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 6 Dec 2000  
 Last Updated on STN: 11 Jan 2002

L16 ANSWER 88 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:393031 HCAPLUS  
 DOCUMENT NUMBER: 131:40587  
 TITLE: Cloning and expression of CSAID binding protein CSBPβ cDNA and its potential use in drug screening and genetic diagnosis  
 INVENTOR(S): McDonnell, Peter Colon; Young, Peter Ronald  
 PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA  
 SOURCE: Eur. Pat. Appl., 27 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 922762	A1	19990616	EP 1997-309793	19971204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11196873	A2	19990727	JP 1997-369757	19971209
PRIORITY APPLN. INFO.:			EP 1997-309793	A 19971204
REFERENCE COUNT:	5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L16 ANSWER 89 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:315403 HCAPLUS  
DOCUMENT NUMBER: 131:99243  
TITLE: Characterization of a novel type of **serine/threonine kinase** that specifically phosphorylates the **human** Goodpasture antigen  
AUTHOR(S): Raya, Angel; Revert, Fernando; Navarro, Samuel; Saus, Juan  
CORPORATE SOURCE: Fundacion Valenciana de Investigaciones Biomedicas, Instituto de Investigaciones Citologicas, Valencia, 46010, Spain  
SOURCE: Journal of Biological Chemistry (1999), 274(18), 12642-12649  
CODEN: JBCHA3; ISSN: 0021-9258  
PUBLISHER: American Society for Biochemistry and Molecular Biology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 90 OF 126 MEDLINE on STN DUPLICATE 14  
ACCESSION NUMBER: 2000090244 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 10626818  
TITLE: The NH2 terminus of galectin-3 governs cellular compartmentalization and functions in cancer cells.  
AUTHOR: Gong H C; Honjo Y; Nangia-Makker P; Hogan V; Mazurak N; Bresalier R S; Raz A  
CORPORATE SOURCE: Metastasis Research Program, Karmanos Cancer Institute, Detroit, Michigan 48201, USA.  
CONTRACT NUMBER: CA46120 (NCI)  
CA69480 (NCI)  
SOURCE: Cancer research, (1999 Dec 15) 59 (24) 6239-45.  
Journal code: 2984705R. ISSN: 0008-5472.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200001  
ENTRY DATE: Entered STN: 20000204  
Last Updated on STN: 20000204  
Entered Medline: 20000124

L16 ANSWER 91 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 1999:288736 BIOSIS  
DOCUMENT NUMBER: PREV199900288736  
TITLE: DNA-PK, the DNA-activated protein **kinase**, is differentially **expressed** in normal and malignant **human** tissues.  
AUTHOR(S): Moll, Ute; Lau, Raymond; Sypes, Michael A.; Gupta, Malini M.; Anderson, Carl W. [Reprint author]  
CORPORATE SOURCE: Biology Department, Brookhaven National Laboratory, 50 Bell Avenue, Upton, NY, 11973, USA  
SOURCE: Oncogene, (May 20, 1999) Vol. 18, No. 20, pp. 3114-3126. print.  
CODEN: ONCNES. ISSN: 0950-9232.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 5 Aug 1999  
Last Updated on STN: 30 Sep 1999

L16 ANSWER 92 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 1999:166595 BIOSIS  
DOCUMENT NUMBER: PREV199900166595  
TITLE: All-trans-retinoic acid inhibits Jun N-terminal

kinase by increasing dual-specificity phosphatase activity.

AUTHOR(S): Lee, Ho-Young; Sueoka, Naoko; Hong, Waun-Ki; Mangelsdorf, David J.; Claret, Francois X.; Kurie, Jonathan M. [Reprint author]

CORPORATE SOURCE: Department Thoracic/Head Neck Medical Oncology, M. D. Anderson Cancer Center, Box 80, 1515 Holcombe Boulevard, Houston, TX 77030, USA

SOURCE: Molecular and Cellular Biology, (March, 1999) Vol. 19, No. 3, pp. 1973-1980. print.  
CODEN: MCEBD4. ISSN: 0270-7306.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19 Apr 1999  
Last Updated on STN: 19 Apr 1999

L16 ANSWER 93 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 1999:726443 SCISEARCH

THE GENUINE ARTICLE: 237GV

TITLE: Role of MAP kinase pathways in mediating IL-6 production in human primary mesangial and proximal tubular cells

AUTHOR: Leonard M; Ryan M P (Reprint); Watson A J; Schramek H; Healy E

CORPORATE SOURCE: NATL UNIV IRELAND UNIV COLL DUBLIN, DEPT PHARMACOL, DUBLIN 4, IRELAND (Reprint); NATL UNIV IRELAND UNIV COLL DUBLIN, DEPT PHARMACOL, DUBLIN 4, IRELAND; ST VINCENTS HOSP, DEPT NEPHROL, DUBLIN 4, IRELAND; INNSBRUCK UNIV, DEPT PHYSIOL, A-6020 INNSBRUCK, AUSTRIA

COUNTRY OF AUTHOR: IRELAND; AUSTRIA

SOURCE: KIDNEY INTERNATIONAL, (OCT 1999) Vol. 56, No. 4, pp. 1366-1377.  
Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148.  
ISSN: 0085-2538.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE; CLIN

LANGUAGE: English

REFERENCE COUNT: 59

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 94 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:568670 HCAPLUS

DOCUMENT NUMBER: 129:185108

TITLE: Cloning and cDNA sequence of a human drug-binding protein p38 MAP kinase isoform

INVENTOR(S): Kumar, Sanjay

PATENT ASSIGNEE(S): Smithkline Beecham Corp., USA

SOURCE: Eur. Pat. Appl., 23 pp.  
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 859054	A1	19980819	EP 1997-309437	19971121
EP 859054	B1	20010530		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6376214	B1	20020423	US 1997-802191	19970218
CA 2215920	AA	19980818	CA 1997-2215920	19971118
JP 10243789	A2	19980914	JP 1998-35982	19980218



US 6350856 B1 20020226 US 1998-47288 19980324  
PRIORITY APPLN. INFO.: US 1997-802191 A 19970218  
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 95 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1998:747855 HCAPLUS  
DOCUMENT NUMBER: 130:109082  
TITLE: Acceleration of lpr lymphoproliferative and autoimmune  
disease by transgenic protein kinase  
CK2 $\alpha$   
AUTHOR(S): Rifkin, Ian R.; Channavajhala, Padma L.; Kiefer,  
Heather L. B.; Carmack, Adrienne J.; Landesman-Bollag,  
Esther; Beaudette, Britte C.; Jersky, Brian; Salant,  
David J.; Ju, Shyr-Te; Marshak-Rothstein, Ann; Seldin,  
David C.  
CORPORATE SOURCE: Department of Medicine, Medical Center, Boston  
University, Boston, MA, 02118, USA  
SOURCE: Journal of Immunology (1998), 161(10), 5164-5170  
CODEN: JOIMA3; ISSN: 0022-1767  
PUBLISHER: American Association of Immunologists  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 96 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
ACCESSION NUMBER: 1998:189052 SCISEARCH  
THE GENUINE ARTICLE: YZ253  
TITLE: Suppression of nitric oxide formation by tyrosine  
kinase inhibitors in murine N9 microglia  
AUTHOR: Lockhart B P (Reprint); Cressey K C; Lepagnol J M  
CORPORATE SOURCE: SERVIER LABS, INST RECH SERVIER, DIV CEREBRAL PATHOL,  
CROISSY SUR SEINE, FRANCE (Reprint)  
COUNTRY OF AUTHOR: FRANCE  
SOURCE: BRITISH JOURNAL OF PHARMACOLOGY, (MAR 1998) Vol. 123, No.  
5, pp. 879-889.  
Publisher: STOCKTON PRESS, HOUNDMILLS, BASINGSTOKE,  
HAMPSHIRE, ENGLAND RG21 6XS.  
ISSN: 0007-1188.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 54  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 97 OF 126 MEDLINE on STN DUPLICATE 15  
ACCESSION NUMBER: 1998174916 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 9513729  
TITLE: Nm23 and tumour metastasis: basic and translational  
advances.  
AUTHOR: Freije J M; MacDonald N J; Steeg P S  
CORPORATE SOURCE: Women's Cancers Section, National Cancer Institute,  
Bethesda, MD 20892, USA.  
SOURCE: Biochemical Society symposium, (1998) 63 261-71. Ref: 75  
Journal code: 7506896. ISSN: 0067-8694.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199804  
ENTRY DATE: Entered STN: 19980430

Last Updated on STN: 19980430  
Entered Medline: 19980423

L16 ANSWER 98 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 1998292118 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 9630166  
TITLE: **Kinase inhibitors abrogate IFN-gamma-induced class II transactivator and class II MHC gene expression in astroglioma cell lines.**  
AUTHOR: Van Wagoner N J; O'Keefe G M; Benveniste E N  
CORPORATE SOURCE: Department of Cell Biology, University of Alabama at Birmingham, 35294-0005, USA.  
CONTRACT NUMBER: 5-T32 GM08111 (NIGMS)  
MH-55795 (NIMH)  
NS-36765 (NINDS)  
+  
SOURCE: Journal of neuroimmunology, (1998 May 15) 85 (2) 174-85.  
Journal code: 8109498. ISSN: 0165-5728.  
PUB. COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199806  
ENTRY DATE: Entered STN: 19980708  
Last Updated on STN: 19980708  
Entered Medline: 19980625

L16 ANSWER 99 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
ACCESSION NUMBER: 1998:465751 SCISEARCH  
THE GENUINE ARTICLE: ZT906  
TITLE: **Protein-tyrosine kinase and protein-serine/threonine kinase expression in human gastric cancer cell lines**  
AUTHOR: Lin J S; Lu C W; Huang C J; Wu P F; Robinson D; Kung H J; Chi C W; Wu C W; Yang W K; WhangPeng J J K; Lin W C (Reprint)  
CORPORATE SOURCE: ACAD SINICA, INST BIOMED SCI, TAIPEI 115, TAIWAN (Reprint); ACAD SINICA, INST BIOMED SCI, TAIPEI 115, TAIWAN; NATL HLTH RES INST, CTR CLIN CANC, TAIPEI, TAIWAN; ACAD SINICA, INST BIOL CHEM, TAIPEI, TAIWAN; CASE WESTERN RESERVE UNIV, SCH MED, DEPT MOL BIOL & MICROBIOL, CLEVELAND, OH; VET GEN HOSP, DEPT SURG, TAIPEI 11217, TAIWAN; VET GEN HOSP, DEPT MED RES, TAIPEI 11217, TAIWAN; NATL YANG MING UNIV, SCH MED, TAIPEI 112, TAIWAN  
COUNTRY OF AUTHOR: TAIWAN; USA  
SOURCE: JOURNAL OF BIOMEDICAL SCIENCE, (MAR-APR 1998) Vol. 5, No. 2, pp. 101-110.  
Publisher: KARGER, ALLSCHWILERSTRASSE 10, CH-4009 BASEL, SWITZERLAND.  
ISSN: 1021-7770.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 29  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 100 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 1998:42498 BIOSIS  
DOCUMENT NUMBER: PREV199800042498  
TITLE: **Smad8 mediates the signaling of the receptor serine kinase.**  
AUTHOR(S): Chen, Yan; Bhushan, Anil; Vale, Wylie [Reprint author]  
CORPORATE SOURCE: Clayton Foundation Lab. Peptide Biol., Salk Inst.

Biological Studies, 10010 North Torrey Pines Rd., La Jolla,  
CA 92037, USA  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America, (Nov. 25, 1997) Vol. 94, No. 24,  
pp. 12938-12943. print.  
CODEN: PNASA6. ISSN: 0027-8424.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 27 Jan 1998  
Last Updated on STN: 27 Jan 1998

L16 ANSWER 101 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN DUPLICATE 16

ACCESSION NUMBER: 97063178 EMBASE  
DOCUMENT NUMBER: 1997063178  
TITLE: Characterization of protein kinase A and protein  
kinase C phosphorylation of the  
N-methyl-D-aspartate receptor NR1 subunit using  
phosphorylation site-specific antibodies.  
AUTHOR: Tingley W.G.; Ehlers M.D.; Kameyama K.; Doherty C.; Ptak  
J.B.; Riley C.T.; Huganir R.L.  
CORPORATE SOURCE: R.L. Huganir, Dept. of Neuroscience, Howard Hughes Medical  
Institute, Johns Hopkins Univ. Sch. of Med., 725 North  
Wolfe St., Baltimore, MD 21205-2185, United States.  
rick.huganir@gmail.bs.jhu.edu  
SOURCE: Journal of Biological Chemistry, (1997) 272/8 (5157-5166).  
Refs: 49  
ISSN: 0021-9258 CODEN: JBCHA3  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 102 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 1998055618 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 9395240  
TITLE: Potentiation of apoptosis by low dose stress stimuli in  
cells **expressing** activated MEK kinase  
1.  
AUTHOR: Widmann C; Johnson N L; Gardner A M; Smith R J; Johnson G L  
CORPORATE SOURCE: Division of Basic Sciences, National Jewish Center for  
Immunology and Respiratory Medicine, Denver, Colorado  
80206, USA.  
CONTRACT NUMBER: CA 58157 (NCI)  
DK 37871 (NIDDK)  
DK 48845 (NIDDK)  
+  
SOURCE: Oncogene, (1997 Nov 13) 15 (20) 2439-47.  
Journal code: 8711562. ISSN: 0950-9232.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199712  
ENTRY DATE: Entered STN: 19980116  
Last Updated on STN: 20020420  
Entered Medline: 19971229

L16 ANSWER 103 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1997:365459 HCAPLUS  
DOCUMENT NUMBER: 127:79485  
TITLE: A putative **serine/threonine**  
**kinase** encoding gene BTAK on chromosome 20q13

is amplified and overexpressed in human  
breast cancer cell lines  
AUTHOR(S): Sen, Subrata; Zhou, Hongyi; White, R. Allen  
CORPORATE SOURCE: Section of Experimental Laboratory Medicine, Division  
of Laboratory Medicine, The University of Texas M.D.  
Anderson Cancer Center, Houston, TX, 77030-4095, USA  
SOURCE: Oncogene (1997), 14(18), 2195-2200  
CODEN: ONCNES; ISSN: 0950-9232  
PUBLISHER: Stockton  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L16 ANSWER 104 OF 126 MEDLINE on STN DUPLICATE 17  
ACCESSION NUMBER: 97236686 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 9121351  
TITLE: Muscarinic receptors involved in hippocampal plasticity.  
AUTHOR: Segal M; Auerbach J M  
CORPORATE SOURCE: Department of Neurobiology, The Weizmann Institute,  
Rehovot, Israel.  
SOURCE: Life sciences, (1997) 60 (13-14) 1085-91. Ref: 37  
Journal code: 0375521. ISSN: 0024-3205.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199704  
ENTRY DATE: Entered STN: 19970506  
Last Updated on STN: 19970506  
Entered Medline: 19970423

L16 ANSWER 105 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
ACCESSION NUMBER: 1997-01339 BIOTECHDS  
TITLE: New mitogen-activated protein-kinase-kinase  
and related DNA;  
gene cloning and expression for use as  
an antiinflammatory, immunosuppressive, etc., and use of  
DNA probe in diagnosis of heart or kidney  
disease, inflammation, autoimmune disease, etc.  
AUTHOR: Davis R J; Gupta S; Raingeaud J; Derijard B  
PATENT ASSIGNEE: Davis R J; Gupta S; Raingeaud J; Derijard B  
LOCATION: Princeton, MA, USA; Worcester, MA, USA; Bazoges-en-Pareds,  
France; Marseilles, France.  
PATENT INFO: WO 9636642 21 Nov 1996  
APPLICATION INFO: WO 1996-US1078 26 Jan 1996  
PRIORITY INFO: US 1995-530950 19 Sep 1995; US 1995-446083 19 May 1995  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 1997-012035 [01]

L16 ANSWER 106 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1996:410596 HCAPLUS  
DOCUMENT NUMBER: 125:108869  
TITLE: ALK-7 (activin like kinase), a  
serine threonine kinase  
receptor, human cDNA sequence, and antibody  
or nucleic acid in diagnosis and gene therapy for  
neurodegenerative disease or injury  
INVENTOR(S): Ibanez, Carlos F.; Ryden, Mikael; Joernvall, Henrik  
PATENT ASSIGNEE(S): Swed.  
SOURCE: PCT Int. Appl., 70 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9612805	A1	19960502	WO 1995-IB899	19951020
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5614609	A	19970325	US 1994-341916	19941115
AU 9536180	A1	19960515	AU 1995-36180	19951020
AU 699024	B2	19981119		
EP 788543	A1	19970813	EP 1995-933575	19951020
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10510143	T2	19981006	JP 1995-513759	19951020
PRIORITY APPLN. INFO.:			US 1994-325956	A 19941020
			US 1994-341916	A 19941115
			WO 1995-IB899	W 19951020

L16 ANSWER 107 OF 126 MEDLINE on STN DUPLICATE 18  
ACCESSION NUMBER: 96411712 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8810265  
TITLE: Site-directed mutagenesis of nm23-H1. Mutation of proline 96 or serine 120 abrogates its motility inhibitory activity upon transfection into human breast carcinoma cells.  
AUTHOR: MacDonald N J; Freije J M; Stracke M L; Manrow R E; Steeg P S  
CORPORATE SOURCE: Women's Cancers Section, Laboratory of Pathology, Division of Clinical Sciences, NCI, National Institutes of Health, Bethesda, Maryland 20892, USA.  
SOURCE: Journal of biological chemistry, (1996 Oct 11) 271 (41) 25107-16.  
Journal code: 2985121R. ISSN: 0021-9258.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-X17620  
ENTRY MONTH: 199611  
ENTRY DATE: Entered STN: 19961219  
Last Updated on STN: 19961219  
Entered Medline: 19961119

L16 ANSWER 108 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 96293484 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8692953  
TITLE: Selection for genes encoding secreted proteins and receptors.  
AUTHOR: Klein R D; Gu Q; Goddard A; Rosenthal A  
CORPORATE SOURCE: Department of Neuroscience, Genentech Inc., South San Francisco, CA 94080-4990, USA.  
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1996 Jul 9) 93 (14) 7108-13.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals



ENTRY MONTH: 199608  
ENTRY DATE: Entered STN: 19960911  
Last Updated on STN: 19960911  
Entered Medline: 19960829

L16 ANSWER 109 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 96210647 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8633070  
TITLE: ERK6, a mitogen-activated protein **kinase** involved  
in C2C12 myoblast differentiation.  
AUTHOR: Lechner C; Zahalka M A; Giot J F; Moller N P; Ullrich A  
CORPORATE SOURCE: Department of Molecular Biology, Max-Planck-Institut fur  
Biochemie, Martinsried, Germany.  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America, (1996 Apr 30) 93 (9) 4355-9.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-X79483  
ENTRY MONTH: 199607  
ENTRY DATE: Entered STN: 19960715  
Last Updated on STN: 19980206  
Entered Medline: 19960701

L16 ANSWER 110 OF 126 MEDLINE on STN DUPLICATE 19  
ACCESSION NUMBER: 96182089 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8622688  
TITLE: 3pK, a new mitogen-activated protein **kinase**  
-activated protein **kinase** located in the small  
cell lung cancer tumor suppressor gene region.  
COMMENT: Erratum in: Mol Cell Biol 1996 Apr;16(4):1880  
AUTHOR: Sithanandam G; Latif F; Duh F M; Bernal R; Smola U; Li H;  
Kuzmin I; Wixler V; Geil L; Shrestha S  
CORPORATE SOURCE: Biological Carcinogenesis and Development Program,  
PRI/DynCorp, National Cancer Institute, Frederick Cancer  
Research and Development Center, Maryland 21702-1201, USA.  
CONTRACT NUMBER: 5 RO1 CA14054-15 (NCI)  
CA58220 (NCI)  
SOURCE: Molecular and cellular biology, (1996 Mar) 16 (3) 868-76.  
Journal code: 8109087. ISSN: 0270-7306.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-U09578  
ENTRY MONTH: 199606  
ENTRY DATE: Entered STN: 19960627  
Last Updated on STN: 20020420  
Entered Medline: 19960618

L16 ANSWER 111 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 1996:158720 BIOSIS  
DOCUMENT NUMBER: PREV199698730855  
TITLE: Genes related to growth and invasiveness are repressed by  
sodium butyrate in ovarian **carcinoma** cells.  
AUTHOR(S): Krupitza, G. [Reprint author]; Grill, S.; Harant, H.;  
Hulla, W.; Szekeres, T.; Huber, H.; Dittrich, C.  
CORPORATE SOURCE: Inst. Clin. Pathol., Univ. Vienna, Wahringer Gurtel 18-20,  
A-1090 Vienna, Austria  
SOURCE: British Journal of Cancer, (1996) Vol. 73, No. 4, pp.  
433-438.  
CODEN: BJCAAI. ISSN: 0007-0920.

DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 11 Apr 1996  
Last Updated on STN: 10 Jun 1997

L16 ANSWER 112 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:543568 HCAPLUS

DOCUMENT NUMBER: 122:285539

TITLE: A **serine/threonine** protein  
**kinase** that phosphorylates the N-terminal  
activation domain of the c-jun protein

INVENTOR(S): Karin, Michael; Davis, Roger; Hibi, Masahiko; Lin,  
Anning; Derijard, Benoit

PATENT ASSIGNEE(S): University of California, USA; University of  
Massachusetts

SOURCE: PCT Int. Appl., 142 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9503323	A1	19950202	WO 1994-US8119	19940718
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5534426	A	19960709	US 1993-94533	19930719
US 6514745	B1	20030204	US 1994-220602	19940325
AU 9473380	A1	19950220	AU 1994-73380	19940718
AU 700137	B2	19981224		
EP 726908	A1	19960821	EP 1994-923544	19940718
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09507384	T2	19970729	JP 1995-505262	19940718
JP 2925740	B2	19990728		
CA 2166981	C	20001107	CA 1994-2166981	19940718
PRIORITY APPLN. INFO.:			US 1993-94533 A	19930719
			US 1994-220602 A	19940325
			WO 1994-US8119 W	19940718

L16 ANSWER 113 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:987269 HCAPLUS

DOCUMENT NUMBER: 124:79601

TITLE: A novel **serine/threonine**  
**kinase** binding the Ras-related RhoA GTPase  
which translocates the **kinase** to peripheral  
membranes

AUTHOR(S): Leung, Thomas; Manser, Edward; Tan, Lydia; Lim, Louis  
CORPORATE SOURCE: Inst. Molecular Cell Biology, National Univ.  
Singapore, Kent Ridge, 0511, Singapore

SOURCE: Journal of Biological Chemistry (1995), 270(49),  
29051-4

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Bio  
logy

DOCUMENT TYPE: Journal

LANGUAGE: English

L16 ANSWER 114 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:584903 HCAPLUS

DOCUMENT NUMBER: 123:250069

TITLE: A novel **serine kinase** activated by  
rac1/CDC42Hs-dependent autophosphorylation is related  
to PAK65 and STE20  
AUTHOR(S): Martin, George A.; Bollaq, Gideon; McCormick, Frank;  
Abo, Arie  
CORPORATE SOURCE: Onyx Pharmaceuticals, Richmond, CA, 94806, USA  
SOURCE: EMBO Journal (1995), 14(9), 1970-8  
CODEN: EMJODG; ISSN: 0261-4189  
PUBLISHER: Oxford University Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L16 ANSWER 115 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 96103550 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 7495695  
TITLE: Phosphorylation of the **human** estrogen receptor by  
mitogen-activated protein **kinase** and casein  
**kinase** II: consequence on DNA binding.  
AUTHOR: Arnold S F; Obourn J D; Jaffe H; Notides A C  
CORPORATE SOURCE: Department of Environmental Medicine, University of  
Rochester School of Medicine and Dentistry, NY, USA.  
CONTRACT NUMBER: ES 01247 (NIEHS)  
HD 06707 (NICHD)  
T32ES 07026 (NIEHS)  
SOURCE: Journal of steroid biochemistry and molecular biology,  
(1995 Nov) 55 (2) 163-72.  
Journal code: 9015483. ISSN: 0960-0760.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199601  
ENTRY DATE: Entered STN: 19960217  
Last Updated on STN: 20020420  
Entered Medline: 19960118

L16 ANSWER 116 OF 126 MEDLINE on STN DUPLICATE 20  
ACCESSION NUMBER: 95127233 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 7826642  
TITLE: p493F12 **kinase**: a novel MAP **kinase**  
**expressed** in a subset of neurons in the  
**human** nervous system.  
AUTHOR: Mohit A A; Martin J H; Miller C A  
CORPORATE SOURCE: Department of Pathology, University of Southern California,  
Los Angeles 90033.  
CONTRACT NUMBER: 5-R37-MH39145 (NIMH)  
AG00093 (NIA)  
AG05142 (NIA)  
SOURCE: Neuron, (1995 Jan) 14 (1) 67-78.  
Journal code: 8809320. ISSN: 0896-6273.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-U07620  
ENTRY MONTH: 199502  
ENTRY DATE: Entered STN: 19950307  
Last Updated on STN: 20000303  
Entered Medline: 19950222

L16 ANSWER 117 OF 126 MEDLINE on STN  
ACCESSION NUMBER: 94336666 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8058741  
TITLE: Genomic structure and **cloned** cDNAs predict that

four variants in the **kinase** domain of  
**serine/threonine kinase**  
receptors arise by alternative splicing and poly(A)  
addition.

AUTHOR: Xu J; Matsuzaki K; McKeehan K; Wang F; Kan M; McKeehan W L  
CORPORATE SOURCE: W. Alton Jones Cell Science Center, Inc., Lake Placid, NY  
12946.  
CONTRACT NUMBER: DK35310 (NIDDK)  
DK38369 (NIDDK)  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America, (1994 Aug 16) 91 (17) 7957-61.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-L10125; GENBANK-L10126; GENBANK-L31848  
ENTRY MONTH: 199409  
ENTRY DATE: Entered STN: 19940920  
Last Updated on STN: 19970203  
Entered Medline: 19940914

L16 ANSWER 118 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

ACCESSION NUMBER: 94296437 EMBASE  
DOCUMENT NUMBER: 1994296437  
TITLE: Interleukin-1 activates a novel protein **kinase**  
cascade that results in the phosphorylation of Hsp27.  
AUTHOR: Freshney N.W.; Rawlinson L.; Guesdon F.; Jones E.; Cowley  
S.; Hsuan J.; Saklatvala J.  
CORPORATE SOURCE: Department of Biochemistry, Tufts University School of  
Medicine, 136 Harrison Avenue, Boston, MA 02111, United  
States  
SOURCE: Cell, (1994) 78/6 (1039-1049).  
ISSN: 0092-8674 CODEN: CELLB5  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 029 Clinical Biochemistry  
030 Pharmacology  
037 Drug Literature Index  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 119 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:695669 HCAPLUS  
DOCUMENT NUMBER: 121:295669  
TITLE: Identification and characterization of DBK, a novel  
putative **serine/threonine** protein  
**kinase** from human endothelial cells  
AUTHOR(S): Chu, Wei; Presky, David H.; Danho, Waleed; Swerlick,  
Robert A.; Burns, Daniel K.  
CORPORATE SOURCE: Dep. Inflammation/Autoimmune Diseases, Hoffman-La  
Roche Inc., Nutely, NJ, USA  
SOURCE: European Journal of Biochemistry (1994), 225(2),  
695-72  
CODEN: EJBCAI; ISSN: 0014-2956  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L16 ANSWER 120 OF 126 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 94:736322 SCISEARCH  
THE GENUINE ARTICLE: PR654  
TITLE: THIOPHOSPHORYLATED SUBSTRATE-ANALOGS ARE POTENT  
ACTIVE-SITE-DIRECTED INHIBITORS OF PROTEIN-TYROSINE

PHOSPHATASES

AUTHOR: HIRIYANNA K T (Reprint); BAEDKE D; BAEK K H; FORNEY B A;  
KORDIYAK G; INGEBRITSEN T S

CORPORATE SOURCE: IOWA STATE UNIV SCI & TECHNOL, DEPT ZOOL & GENET, AMES,  
IA, 50011 (Reprint)

COUNTRY OF AUTHOR: USA

SOURCE: ANALYTICAL BIOCHEMISTRY, (15 NOV 1994) Vol. 223, No. 1,  
pp. 51-58.  
ISSN: 0003-2697.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE

LANGUAGE: ENGLISH

REFERENCE COUNT: 33

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L16 ANSWER 121 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN

ACCESSION NUMBER: 94044136 EMBASE

DOCUMENT NUMBER: 1994044136

TITLE: The interleukin-1-stimulated protein **kinase** that  
phosphorylates heat shock protein hsp27 is activated by MAP  
**kinase**.

AUTHOR: Bird T.A.; Schule H.D.; Delaney P.; De Roos P.; Sleath P.;  
Dower S.K.; Virca G.D.

CORPORATE SOURCE: Department of Biochemistry, Immunex Corporation, 51  
University Street, Seattle, WA 98101, United States

SOURCE: FEBS Letters, (1994) 338/1 (31-36).  
ISSN: 0014-5793 CODEN: FEBLAL

COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 029 Clinical Biochemistry  
030 Pharmacology  
037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

L16 ANSWER 122 OF 126 MEDLINE on STN DUPLICATE 21

ACCESSION NUMBER: 93388567 MEDLINE

DOCUMENT NUMBER: PubMed ID: 8397199

TITLE: **Expression** of a Ca<sup>2+</sup>/calmodulin-dependent protein  
**kinase**, CaM **kinase**-Gr, in **human**  
T lymphocytes. Regulation of **kinase** activity by T  
cell receptor signaling.

AUTHOR: Hanissian S H; Frangakis M; Bland M M; Jawahar S; Chatila T  
A

CORPORATE SOURCE: Division of Immunology, Children's Hospital, Boston,  
Massachusetts.

SOURCE: Journal of biological chemistry, (1993 Sep 25) 268 (27)  
20055-63.  
Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199310

ENTRY DATE: Entered STN: 19931105  
Last Updated on STN: 19980206  
Entered Medline: 19931020

L16 ANSWER 123 OF 126 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:205670 HCAPLUS

DOCUMENT NUMBER: 118:205670

TITLE: Interaction of the **human** insulin receptor  
tyrosine **kinase** from the baculovirus



expression system with protein kinase  
C in a cell-free system

AUTHOR(S): Ahn, Jongcheol; Donner, David B.; Rosen, Ora M.  
CORPORATE SOURCE: Mem. Sloan-Kettering Cancer Cent., New York, NY,  
10021, USA  
SOURCE: Journal of Biological Chemistry (1993), 268(10),  
7571-6  
CODEN: JBCHA3; ISSN: 0021-9258  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L16 ANSWER 124 OF 126 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS  
RESERVED. on STN DUPLICATE 22

ACCESSION NUMBER: 93188200 EMBASE  
DOCUMENT NUMBER: 1993188200  
TITLE: Novel protein kinases expressed in  
human breast cancer.  
AUTHOR: Cance W.G.; Craven R.J.; Weiner T.M.; Liu E.T.  
CORPORATE SOURCE: University of North Carolina, Department of Surgery, Chapel  
Hill, NC 27599, United States  
SOURCE: International Journal of Cancer, (1993) 54/4 (571-577).  
ISSN: 0020-7136 CODEN: IJCNAW  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 005 General Pathology and Pathological Anatomy  
016 Cancer  
022 Human Genetics  
029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English

L16 ANSWER 125 OF 126 MEDLINE on STN DUPLICATE 23

ACCESSION NUMBER: 92021040 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 1656468  
TITLE: Human vitamin D receptor is selectively  
phosphorylated by protein kinase C on  
serine 51, a residue crucial to its  
trans-activation function.  
AUTHOR: Hsieh J C; Jurutka P W; Galligan M A; Terpening C M;  
Haussler C A; Samuels D S; Shimizu Y; Shimizu N; Haussler M  
R  
CORPORATE SOURCE: Department of Biochemistry, University of Arizona, Tucson  
85724.  
CONTRACT NUMBER: AR 1578 (NIAMS)  
DK 33351 (NIDDK)  
GM 24375 (NIGMS)  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America, (1991 Oct 15) 88 (20) 9315-9.  
Journal code: 7505876. ISSN: 0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199111  
ENTRY DATE: Entered STN: 19920124  
Last Updated on STN: 19920124  
Entered Medline: 19911115

L16 ANSWER 126 OF 126 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1991:355174 BIOSIS  
DOCUMENT NUMBER: PREV199141039689; BR41:39689  
TITLE: REGULATION OF CELL PROLIFERATION AND STEROID HORMONE  
RECEPTOR GENE EXPRESSION IN HUMAN  
BREAST CANCER CELLS BY PHORBOL ESTERS AND

DIACYLGLYCEROL.

AUTHOR(S): LEE C S L [Reprint author]; ORMANDY C J; MUSGROVE E A;  
SUTHERLAND R L

CORPORATE SOURCE: GARVAN INST MED RES, ST VINCENT'S HOSP, SYDNEY, NSW 2010,  
AUST

SOURCE: Proceedings of the American Association for Cancer Research  
Annual Meeting, (1991) Vol. 32, pp. 210.  
Meeting Info.: 82ND ANNUAL MEETING OF THE AMERICAN  
ASSOCIATION FOR CANCER RESEARCH, HOUSTON, TEXAS, USA, MAY  
15-18, 1991. PROC AM ASSOC CANCER RES ANNU MEET.  
ISSN: 0197-016X.

DOCUMENT TYPE: Conference; (Meeting)

FILE SEGMENT: BR

LANGUAGE: ENGLISH

ENTRY DATE: Entered STN: 1 Aug 1991  
Last Updated on STN: 11 Sep 1991

=> e ye j/au

E1	1	YE IL O/AU
E2	1	YE IN HAE/AU
E3	1758 -->	YE J/AU
E4	13	YE J A/AU
E5	243	YE J B/AU
E6	39	YE J C/AU
E7	21	YE J D/AU
E8	17	YE J F/AU
E9	14	YE J G/AU
E10	360	YE J H/AU
E11	130	YE J J/AU
E12	37	YE J L/AU

=> s e3

L17 1758 "YE J"/AU

=> e yan c/au

E1	1	YAN BUYU/AU
E2	1	YAN BY ZHANQING/AU
E3	1019 -->	YAN C/AU
E4	2	YAN C B/AU
E5	123	YAN C C/AU
E6	6	YAN C C S/AU
E7	3	YAN C CHAN/AU
E8	16	YAN C D/AU
E9	1	YAN C D L/AU
E10	19	YAN C F/AU
E11	46	YAN C G/AU
E12	448	YAN C H/AU

=> s e3

L18 1019 "YAN C"/AU

=> e difrancesco v/au

E1	1	DIFRANCESCO U/AU
E2	1	DIFRANCESCO U M/AU
E3	96 -->	DIFRANCESCO V/AU
E4	16	DIFRANCESCO VALENTINA/AU
E5	1	DIFRANCESCO L/AU
E6	1	DIFRANCESCO D/AU
E7	2	DIFRANCESCO L/AU
E8	1	DIFRANCESCO R/AU
E9	1	DIFRANCESCO ROBIN/AU
E10	1	DIFRANCESCO L/AU
E11	6	DIFRANCIA C/AU

E12 4 DIFRANCIA CELENE/AU

=> s e3-e4

L19 112 ("DIFRANCESCO V"/AU OR "DIFRANCESCO VALENTINA"/AU)

=> e beasley e m/au

E1 1 BEASLEY E H/AU  
E2 6 BEASLEY E L/AU  
E3 297 --> BEASLEY E M/AU  
E4 7 BEASLEY E O/AU  
E5 1 BEASLEY E S G/AU  
E6 2 BEASLEY E T/AU  
E7 4 BEASLEY E W/AU  
E8 2 BEASLEY E W 3RD/AU  
E9 2 BEASLEY E W III/AU  
E10 1 BEASLEY E W JR/AU  
E11 1 BEASLEY EDWARD E/AU  
E12 1 BEASLEY EDWARD EVANS/AU

=> s e3

L20 297 "BEASLEY E M"/AU

=> d his

(FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004

L1 1212511 S KINASE?  
L2 442433 S HUMAN AND L1  
L3 406466 S SERINE OR THREONINE  
L4 39005 S L2 AND L3  
L5 6588705 S CLON? OR EXPRESS? OR RECOMBINANT  
L6 22817 S L4 AND L5  
L7 4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN  
L8 0 S KIDNEY OT UTERUS  
L9 1844028 S KIDNEY OR UTERUS  
L10 4280 S L6 AND L7  
L11 1410 S L6 AND L9  
L12 5270 S L10 OR L11  
L13 4661 SS L1 (2W)L3  
L14 4661 S L1 (2W)L3  
L15 195 S L12 AND L14  
L16 126 DUP REM L15 (69 DUPLICATES REMOVED)  
E YE J/AU  
L17 1758 S E3  
E YAN C/AU  
L18 1019 S E3  
E DIFRANCESCO V/AU  
L19 112 S E3-E4  
E BEASLEY E M/AU  
L20 297 S E3

=> s l16 or l17 or l18 or l19 or l20

L21 3154 L16 OR L17 OR L18 OR L19 OR L20

=> s l15 and l21

L22 126 L15 AND L21

=> dup rem l22

PROCESSING COMPLETED FOR L22

L23 126 DUP REM L22 (0 DUPLICATES REMOVED)

=> s "stk"

L24 1665 "STK"

=> s 123 and 124

L25 0 L23 AND L24

=> s 11(a)13

L26 41147 L1(A) L3

=> s human (a)126

L27 25 HUMAN (A) L26

=> s 122 and 127

L28 1 L22 AND L27

=> d all

L28 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:779935 HCAPLUS

DN 137:258603

ED Entered STN: 14 Oct 2002

TI **Human serine kinase** receptor-like protein,  
protein and cDNA sequences, **recombinant** production and  
therapeutic uses

IN Mao, Yumin; Xie, Yi

PA Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM C07K014-435

ICS C07K014-00; C07K016-18; C07K016-00; C07H021-00; C12N015-10;  
C12N015-11; C12N015-12; C12N015-63

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 1, 7, 13

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1331241	A	20020116	CN 2000-116976	20000630
	WO 2002012486	A1	20020214	WO 2001-CN1071	20010629
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2002014912	A5	20020218	AU 2002-14912	20010629
PRAI	CN 2000-116976	A	20000630		
	WO 2001-CN1071	W	20010629		

AB The invention relates to a **human serine kinase**  
receptor-like protein, designated as **serine kinase**  
receptor 10.34. The open reading frame of the cDNA encodes a protein with  
94 amino acids, and an estimated mol. weight of 10 kilodalton based on  
SDS-PAGE.

The invention provides the use of polypeptide and polynucleotide in a  
method for treatment of various kinds of diseases, such as cancer, blood  
disease, HIV infection, immune diseases, growth disease, and inflammation.  
The invention also relates to methods, **expression** vectors and  
host cells for **recombinant** production of said **serine**  
**kinase** receptor 10.34. The invention also relates to agonist and  
antagonist of said **serine kinase** receptor 10.34 and  
uses in therapy. The invention found that the **expression**

profile of said **serine kinase** receptor 10.34 in some animal cell lines and tissues was similar to that of **human serine kinase** receptor SKR1.

- ST sequence cDNA **serine kinase** receptor like protein **human**; therapy diagnosis **serine kinase** receptor like protein **human**
- IT Susceptibility (genetic)  
(diagnosis of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT Immunity  
(disorder, treatment of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT **Brain**  
(fetal, **serine kinase** receptor-like protein cloned from; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT Diagnosis  
(genetic, of susceptibility and mutation; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT DNA microarray technology  
Nucleic acid amplification (method)  
Nucleic acid hybridization  
(**human serine kinase** receptor-like protein, cDNA sequence and uses in nucleic acid hybridization and amplification)
- IT Primers (nucleic acid)  
Probes (nucleic acid)  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(**human serine kinase** receptor-like protein, cDNA sequence and uses in nucleic acid hybridization and amplification)
- IT cDNA sequences  
(**human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)
- IT Anti-AIDS agents  
Anti-inflammatory agents  
Antitumor agents  
Drug screening  
**Human**  
Molecular cloning  
Plasmid vectors  
Viral vectors  
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT Antibodies and Immunoglobulins  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)  
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT Antisense oligonucleotides  
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(**human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)
- IT Protein sequences  
(**human serine kinase** receptor-like



protein, protein sequence, **recombinant** production and therapeutic uses)

IT Diagnosis  
 (mol., for disease related to aberrant **expression** or activity of **serine kinase** receptor-like protein; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT Proteins  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (protein **serine/threonine kinase**-like; **human serine kinase** receptor-like protein, protein sequence, **recombinant** production and therapeutic uses)

IT AIDS (disease)  
 Blood, disease  
 Inflammation  
 Neoplasm  
 (treatment of; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT 340700-49-4, Receptor **serine/threonine** protein **kinase**  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (-like; **human serine kinase** receptor-like protein, protein sequence, **recombinant** production and therapeutic uses)

IT 461743-18-0P  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (amino acid sequence; **human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)

IT 461743-17-9 461743-19-1  
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (nucleotide sequence; **human serine kinase** receptor-like protein, cDNA sequence, **recombinant** production and therapeutic uses)

IT 461749-18-8 461749-19-9 461749-20-2 461749-21-3 461749-22-4 461749-23-5  
 RL: PRP (Properties)  
 (unclaimed nucleotide sequence; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

IT 461659-38-1  
 RL: PRP (Properties)  
 (unclaimed sequence; **human serine kinase** receptor-like protein, protein and cDNA sequences, **recombinant** production and therapeutic uses)

=> d his

(FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004

L1 1212511 S KINASE?  
 L2 442433 S HUMAN AND L1  
 L3 406466 S SERINE OR THREONINE  
 L4 39005 S L2 AND L3

L5 6588705 S CLON? OR EXPRESS? OR RECOMBINANT  
 L6 22817 S L4 AND L5  
 L7 4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN  
 L8 0 S KIDNEY OT UTERUS  
 L9 1844028 S KIDNEY OR UTERUS  
 L10 4280 S L6 AND L7  
 L11 1410 S L6 AND L9  
 L12 5270 S L10 OR L11  
 L13 4661 SS L1 (2W)L3  
 L14 4661 S L1 (2W)L3  
 L15 195 S L12 AND L14  
 L16 126 DUP REM L15 (69 DUPLICATES REMOVED)  
 E YE J/AU  
 L17 1758 S E3  
 E YAN C/AU  
 L18 1019 S E3  
 E DIFRANCESCO V/AU  
 L19 112 S E3-E4  
 E BEASLEY E M/AU  
 L20 297 S E3  
 L21 3154 S L16 OR L17 OR L18 OR L19 OR L20  
 L22 126 S L15 AND L21  
 L23 126 DUP REM L22 (0 DUPLICATES REMOVED)  
 L24 1665 S "STK"  
 L25 0 S L23 AND L24  
 L26 41147 S L1(A)L3  
 L27 25 S HUMAN (A)L26  
 L28 1 S L22 AND L27

=> d l27 1-25 ibib ab

L27 ANSWER 1 OF 25 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 ACCESSION NUMBER: 1991:407426 BIOSIS  
 DOCUMENT NUMBER: PREV199192074391; BA92:74391  
 TITLE: PHOSPHORYLATION OF THE INSULIN RECEPTOR BY A CASEIN KINASE  
 I-LIKE ENZYME.  
 AUTHOR(S): RAPUANO M [Reprint author]; ROSEN O M  
 CORPORATE SOURCE: 18 HILLSIDE AVE, NEWTON, NJ 07860, USA  
 SOURCE: Journal of Biological Chemistry, (1991) Vol. 266, No. 20,  
 pp. 12902-12907.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 DOCUMENT TYPE: Article  
 FILE SEGMENT: BA  
 LANGUAGE: ENGLISH  
 ENTRY DATE: Entered STN: 11 Sep 1991  
 Last Updated on STN: 11 Sep 1991

AB A serine protein kinase that phosphorylates the  $\beta$ -subunit of the  
 insulin receptor has been partially purified 5,000-fold from HeLa cell  
 membranes. The enzyme has been purified by ion-exchange and  
 hydroxylapatite chromatography and sucrose gradient centrifugation; it has  
 an apparent molecular weight of 36,000-43,000 daltons. It exhibits the  
 following properties: it catalyzes the phosphorylation of the  
 autophosphorylated insulin receptor more efficiently than the  
 nonautophosphorylated insulin receptor, it decreases insulin receptor  
 phosphorylation of tubulin but has no effect on insulin receptor  
 phosphorylation of microtubule-associated proteins or reduced and  
 carboxyamidomethylated lysozyme. the enzyme also phosphorylates casein and  
 ribosomal protein S6 and shares many properties with casein kinase I:  
 similar molecular weight, utilization of ATP but not GTP as phosphoryl  
 donor, and sensitivity to inhibition by heparin. Based on several  
 criteria the reeptors serine kinase is neither protein kinase C nor the  
 cAMP-dependent protein kinase.

L27 ANSWER 2 OF 25 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

ACCESSION NUMBER: 2002-09615 BIOTECHDS

TITLE: **Human serine kinase** receptor  
10.34 and encoding polynucleotide, used in diagnosis and  
treatment of malignant tumors, hemopathy, human  
immunodeficiency virus infection, immunological diseases and  
inflammation;  
plasmid and virus vector-mediated recombinant protein gene  
transfer and expression in host cell, DNA microarray, DNA  
chip, antisense and antibody for cancer and HIV virus  
infection diagnosis and genetherapy

AUTHOR: MAO Y; XIE Y

PATENT ASSIGNEE: SHANGHAI BIOWINDOW GENE DEV INC

PATENT INFO: WO 2002012486 14 Feb 2002

APPLICATION INFO: WO 2000-CN1071 30 Jun 2000

PRIORITY INFO: CN 2000-116976 30 Jun 2000

DOCUMENT TYPE: Patent

LANGUAGE: German

OTHER SOURCE: WPI: 2002-164859 [21]

AB DERWENT ABSTRACT:

NOVELTY - An isolated polypeptide (I) of **Human serine kinase** receptor 10.34 containing a 94 residue amino acid sequence (S1), fully defined in the specification, or its fragment, analog or derivative, is new. Detailed Description

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) an isolated polynucleotide (II): (a) encoding (S1), or its fragment, analog or derivative; (b) complementary to (a); or (c) not less than 70 % homologous to (a) or (b); (2) a recombinant vector (III) containing an exogenous polynucleotide constructed from (II) and a plasmid, virus vector-expressing vector; (3) a genetically-modified host cell (IV) comprising (II) or (III); (4) producing (I) by culturing (IV) before isolating the product; (5) an antibody that specifically binds (I); (6) mimics or regulators of (I) activity or expression, preferably compounds that can mimic, promote, antagonize or inhibit **Human serine kinase** receptor 10.34; (7) using the compounds of (6) for regulating (I) in vivo or in vitro; (8) detecting diseases relating to the novel polypeptide or disease susceptibility, by measuring the expression dose of (I), determining (I) activity, or detecting (I) expression dose caused by the polynucleotide that has abnormal activity due to a (II) mutation; (9) using (I) for screening mimics, agonists, antagonists or inhibitors, or for use in peptide fingerprinting identification; (10) using (II) as a primer for nucleic acid amplification reaction or as a probe for hybridization reaction, or in producing gene chips or microarrays; and (11) drug compositions for diseases relating to the (I) containing (I), (II), or mimics, agonists, antagonists, or inhibitors and their preparation in safe amounts with pharmaceutically-acceptable carrier, which can be used as diagnostics as well.

BIOTECHNOLOGY - Preferred Polypeptide: (I) is particularly one with not less than 95 % homology to (S1), especially one with an amino-acid sequence of (S1). Preferred Polynucleotide: (II) encodes the polypeptide of (S1), and contains a sequence with bases 965-1249, or bases 1-1907 of a 1907 nucleotide sequence (S2), fully defined in the specification. Preferred Compound: The compound is particularly a polynucleotide of (S2), or an antisense of its fragment.

ACTIVITY - Cytostatic; hemostatic; virucide; immunomodulatory; antiinflammatory. No biological data is given.

MECHANISM OF ACTION - Gene therapy. No biological data is given.

USE - (I) and (II) are used in diagnosis and treatment of malignant tumor, hemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations (claimed).

ADMINISTRATION - Administration is non-oral, particularly by injection. No dosage is suggested.

EXAMPLE - Cloning of **Human serine kinase** receptor 10.34 was performed by using human fetal RNA and then further

studies were carried out.(34 pages)

L27 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:371153 HCAPLUS  
DOCUMENT NUMBER: 140:371494  
TITLE: Binary prediction tree modeling with many predictors  
and its uses in clinical and genomic applications  
INVENTOR(S): Nevins, Joseph R.; West, Mike; Huang, Andrew T.  
PATENT ASSIGNEE(S): Duke University, USA  
SOURCE: PCT Int. Appl., 886 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 5  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004038376	A2	20040506	WO 2003-US33946	20031024
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2004038376	A2	20040506	WO 2003-XA33946	20031024
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2004038376	A2	20040506	WO 2003-XB33946	20031024
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 2002-420729P	P	20021024
US 2002-421062P	P	20021025
US 2002-421102P	P	20021025
US 2002-424701P	P	20021108
US 2002-424715P	P	20021108
US 2002-424718P	P	20021108
US 2002-425256P	P	20021112
US 2003-448461P	P	20030221
US 2003-448462P	P	20030221
US 2003-457877P	P	20030327

AB The statistical anal. described and claimed is a predictive statistical tree model that overcomes several problems observed in prior statistical models and regression analyses, while ensuring greater accuracy and predictive capabilities. Although the claimed use of the predictive statistical tree model described herein is directed to the prediction of a disease in individuals, the claimed model can be used for a variety of applications including the prediction of disease states, susceptibility of disease states or any other biol. state of interest, as well as other applicable non-biol. states of interest. This model first screens genes to reduce noise, applies kmeans correlation-based clustering targeting a large number of clusters, and then uses singular value decompns. (SVD) to extract the single dominant factor (principal component) from each cluster. This generates a statistically significant number of cluster-derived singular factors, that are referred to as metagenes, that characterize multiple patterns of expression of the genes across samples. The strategy aims to extract multiple such patterns while reducing dimension and smoothing out gene-specific noise through the aggregation within clusters. Formal predictive anal. then uses these metagenes in a Bayesian classification tree anal. This generates multiple recursive partitions of the sample into subgroups (the 'leaves' of the classification tree), and assocs. Bayesian predictive probabilities of outcomes with each subgroup. Overall predictions for an individual sample are then generated by averaging predictions, with appropriate wts., across many such tree models. The model includes the use of iterative out-of-sample, cross-validation predictions leaving each sample out of the data set one at a time, refitting the model from the remaining samples and using it to predict the hold-out case. This rigorously tests the predictive value of a model and mirrors the real-world prognostic context where prediction of new cases as they arise is the major goal.

L27 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:777245 HCAPLUS

DOCUMENT NUMBER: 139:287957

TITLE: Regulation of HIV-Tat and NEF by PAK4 kinase and its binding partners and methods of identifying modulators thereof

INVENTOR(S): Melnick, Michael B.; Moritz, Albrecht; Comb, Michael J.

PATENT ASSIGNEE(S): Cell Signaling Technology, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of U.S. Ser. No. 750,457, abandoned.  
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003186254	A1	20031002	US 2002-134102	20020429
PRIORITY APPLN. INFO.:			US 1999-173939P	P 19991230
			US 2000-750457	B2 20001228

AB The present invention discloses complexes of cellular signaling proteins that interact in vivo with the HIV-encoded auxiliary proteins Nef and Tat to modulate their activity. This complex includes the novel serine/threonine kinase PAK4 and the novel guanine nucleotide exchange factor Cdc42-GEF, which synergize to stimulate Tat transcriptional activity, and the acetyl-transferase Tip60 which modifies Nef. These cellular partners of the HIV auxiliary proteins represent novel targets for HIV therapeutics. The invention provides isolated DNA and vectors encoding PAK4 and Cdc42-GEF, and methods of producing recombinant forms of these proteins. The invention also provides methods for identifying



comps. that modulate the activity of HIV-Tat, HIV-Nef or Tip60, and methods for modulating the activity of these enzymes.

L27 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:356640 HCAPLUS

DOCUMENT NUMBER: 138:380471

TITLE: Genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses

INVENTOR(S): Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke, Martin; Lemke, Britt; Hacker, Christine

PATENT ASSIGNEE(S): Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin

SOURCE: PCT Int. Appl., 285 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003038130	A2	20030508	WO 2002-US34888	20021031
WO 2003038130	A3	20040212		
WO 2003038130	C1	20040422		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003038130	A2	20030508	WO 2002-XA34888	20021031
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004014064	A1	20040122	US 2002-285366	20021031
PRIORITY APPLN. INFO.:			US 2001-335048P	P 20011031
			US 2001-335183P	P 20011102
			WO 2002-US34888	A 20021031

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2 chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the

HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.

L27 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:221864 HCAPLUS  
DOCUMENT NUMBER: 138:249732  
TITLE: Gene expression profiling for identification of disease genes for use in drug screening and therapy  
INVENTOR(S): Bristow, Michael R.; Minobe, Wayne A.; Lowes, Brian D.; Perryman, Benjamin M.  
PATENT ASSIGNEE(S): The Regents of the University of Colorado, USA  
SOURCE: PCT Int. Appl., 74 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003023066	A1	20030320	WO 2002-US28808	20020911

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003096782	A1	20030522	US 2002-241368	20020911
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PRIORITY APPLN. INFO.: US 2001-318854P P 20010911

AB A method for identifying genes involved in development, progression, and/or maintenance of a disease comprises comparison of gene expression profiles of samples from healthy and diseased subjects and/or from treated and untreated diseased subjects. The methods may be applied to the identification of genes involved in cardiac disease states. Through the identification of new targets, addnl. methods for drug screening and therapy also are provided. Thus, the method was applied to patients exhibiting dilated cardiomyopathy and those with the disease after treatment with  $\beta$ -blockers. One hundred thirty six genes which were up- or down-regulated were identified.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:779935 HCAPLUS  
DOCUMENT NUMBER: 137:258603  
TITLE: Human serine kinase receptor-like protein, protein and cDNA sequences, recombinant production and therapeutic uses  
INVENTOR(S): Mao, Yumin; Xie, Yi  
PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China  
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.  
CODEN: CNXXEV  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1331241	A	20020116	CN 2000-116976	20000630
WO 2002012486	A1	20020214	WO 2001-CN1071	20010629
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2002014912	A5	20020218	AU 2002-14912	20010629
PRIORITY APPLN. INFO.: CN 2000-116976 A 20000630				
WO 2001-CN1071 W 20010629				

AB The invention relates to a **human serine kinase** receptor-like protein, designated as serine kinase receptor 10.34. The open reading frame of the cDNA encodes a protein with 94 amino acids, and an estimated mol. weight of 10 kilodalton based on SDS-PAGE. The invention provides the use of polypeptide and polynucleotide in a method for treatment of various kinds of diseases, such as cancer, blood disease, HIV infection, immune diseases, growth disease, and inflammation. The invention also relates to methods, expression vectors and host cells for recombinant production of said serine kinase receptor 10.34. The invention also relates to agonist and antagonist of said serine kinase receptor 10.34 and uses in therapy. The invention found that the expression profile of said serine kinase receptor 10.34 in some animal cell lines and tissues was similar to that of **human serine kinase** receptor SKR1.

L27 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 2002:730430 HCAPLUS  
 DOCUMENT NUMBER: 137:259334  
 TITLE: Protein and cDNA sequences of two novel human serine protein kinases expressed in brain and pancreas  
 INVENTOR(S): Shu, Youmin; Fan, Wufang; Kovacs, Karl F.; Zidanic, Michael; Jay, Gilbert  
 PATENT ASSIGNEE(S): Origene Technologies, Inc, USA  
 SOURCE: U.S., 34 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6455292	B1	20020924	US 2001-930181	20010816
US 2003092036	A1	20030515	US 2002-195072	20020715
US 2003096271	A1	20030522	US 2002-195071	20020715
WO 2003016485	A2	20030227	WO 2002-US26129	20020816
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

US 2001-930181 A1 20010816

AB The present invention provides protein and cDNA sequences of two novel human serine protein kinases (KSE336-1 and KSE336-2) expressed in brain and pancreas. The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clin. medicine, forensic science, pathol., and medicine. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as mol. markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to diseases and conditions, especially relating to brain and pancreas.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:640474 HCAPLUS

DOCUMENT NUMBER: 138:22553

TITLE: Human TPX2 is required for targeting Aurora-A kinase to the spindle

AUTHOR(S): Kufer, Thomas A.; Sillje, Herman H. W.; Korner, Roman; Gruss, Oliver J.; Meraldi, Patrick; Nigg, Erich A.

CORPORATE SOURCE: Department of Cell Biology, Max Planck Institute of Biochemistry, Martinsried, D-82152, Germany

SOURCE: Journal of Cell Biology (2002), 158(4), 617-623  
CODEN: JCLBA3; ISSN: 0021-9525

PUBLISHER: Rockefeller University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Aurora-A is a serine-threonine kinase implicated in the assembly and maintenance of the mitotic spindle. Here we show that human Aurora-A binds to TPX2, a prominent component of the spindle apparatus TPX2 was identified by mass spectrometry as a major protein coimmunopptg. specifically with Aurora-A from mitotic HeLa cell exts. Conversely, Aurora-A could be detected in TPX2 immunoppts. This indicates that subpopulations of these two proteins undergo complex formation in vivo. Binding studies demonstrated that the N-terminal of TPX2 can directly interact with the COOH-terminal catalytic domain of Aurora-A. Although kinase activity was not required for this interaction, TPX2 was readily phosphorylated by Aurora-A. Upon siRNA-mediated elimination of TPX2 from cells, the association of Aurora-A with the spindle microtubules was abolished, although its association with spindle poles was unaffected. Conversely, depletion of Aurora-A by siRNA had no detectable influence on the localization of TPX2. We propose that human TPX2 is required for targeting Aurora-A kinase to the spindle apparatus In turn, Aurora-A might regulate the function of TPX2 during spindle assembly.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:575214 HCAPLUS

DOCUMENT NUMBER: 137:136129

TITLE: Human protein kinase and the cDNA and genomic DNA encoding the protein kinase

INVENTOR(S): Beasley, Ellen M.; Ye, Jane; Yan, Chunhua; Ketchum, Karen A.; Di Francesco, Valentina

PATENT ASSIGNEE(S): PE Corporation (NY), USA

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059288	A2	20020801	WO 2002-US930	20020115
WO 2002059288	A3	20030410		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003022337	A1	20030130	US 2001-819607	20010329
US 6686176	B2	20040203		
EP 1356027	A2	20031029	EP 2002-705765	20020115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004067568	A1	20040408	US 2003-633631	20030805
PRIORITY APPLN. INFO.:				
			US 2001-263162P	P 20010123
			US 2001-819607	A 20010329
			WO 2002-US930	W 20020115

AB The present invention provides the amino acid sequence a human protein, and encoding gene and cDNA sequences, that shows a particularly high degree of similarity to the the serine/threonine protein kinase EVC gene which is associated with Ellis-van Creveld syndrome and Weyers acrodermal dysostosis. Exptl. data indicates expression in humans in prostate, lung, and whole brain. The present invention specifically provides isolated peptide and nucleic acid mols., methods of identifying orthologs and paralogs of the kinase peptides, and methods of identifying modulators of the kinase peptides.

L27 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:784251 HCAPLUS

DOCUMENT NUMBER: 132:19663

TITLE: human Pak4 novel gene encoding a serine/threonine kinase useful as tumor cell inhibitor and active in induction of filopodia and actin cytoskeleton polymerization

INVENTOR(S): Minden, Audrey

PATENT ASSIGNEE(S): The Trustees of Columbia University In the City of New York, USA

SOURCE: PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963073	A1	19991209	WO 1999-US11341	19990521
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6013500	A	20000111	US 1998-82737	19980521
AU 9940947	A1	19991220	AU 1999-40947	19990521



US 6667168	B1	20031223	US 2000-718032	20001121
US 2004091992	A1	20040513	US 2003-693367	20031024
PRIORITY APPLN. INFO.:			US 1998-82737	A2 19980521
			WO 1999-US11341	W 19990521
			US 2000-718032	A3 20001121

AB This invention provides an isolated mammalian nucleic acid mol. encoding a PAK4 serine/threonine kinase. This invention provides an isolated nucleic acid mol. encoding a mutant homolog of the mammalian PAK4 serine/threonine kinase whose amino acid sequence is set forth. This invention provides a fusion protein comprising a PAK4 serine/threonine kinase or a fragment thereof and a second peptide. This invention provides a purified mammalian PAK4 serine/threonine kinase. This invention provides a protein comprising substantially the amino acid sequence set forth in Figure 1A. This invention provides a monoclonal antibody directed to an epitope of a PAK4 serine/threonine kinase. This invention provides a method of inhibiting PAK4 function comprising administering a ligand comprising an amino acid domain which binds to a GTP binding protein so as to inhibit binding of the GTP binding protein to PAK4. This invention provides a method of inhibiting PAK4 function comprising administering a ligand which binds to the GTP binding domain of PAK4 so as to inhibit PAK4 binding to a GTP binding protein. This invention provides a method of inhibiting PAK4 serine/threonine kinase function comprising administering a ligand which blocks an ATP binding domain so as to inhibit PAK4 serine/threonine kinase function. This invention provides a method of inhibiting growth of a tumor cell comprising blocking Cdc42Hs by administering a ligand capable of binding to a Cdc42Hs binding site of a PAK4 serine/threonine kinase. PAK4 was shown to interact with activated Cdc42Hs through GBD/CRIB domain and is recruited to the Golgi. PAK4 is involved with the actin cytoskeleton and activation of the JNK pathway. PAK4 induces actin polymerization and induces formation of filopodia. PAK4 is used as a tumor cell inhibitor for cancer or arthritis. Mouse cDNA and protein fragments are also listed..

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1999:421789 HCAPLUS  
 DOCUMENT NUMBER: 131:55792  
 TITLE: Cloning of cDNA for human STE20-like signal transduction serine/threonine kinase  
 INVENTOR(S): Norris, Tyrell Errick; Moore, William Craig; Silberstein, David Shay  
 PATENT ASSIGNEE(S): Zeneca Limited, UK  
 SOURCE: PCT Int. Appl., 111 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932637	A1	19990701	WO 1998-GB3793	19981217
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9916766	A1	19990712	AU 1999-16766	19981217
EP 1040194	A1	20001004	EP 1998-961306	19981217

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

JP 2002516064 T2 20020604 JP 2000-525556 19981217  
PRIORITY APPLN. INFO.: GB 1997-26851 A 19971219  
WO 1998-GB3793 W 19981217

AB A human signal-transduction kinase polypeptide is described which is expressed at a particularly high level in tissues of the human immune system. A full length cDNA which encodes a Ste20-like signal transduction serine/threonine kinase polypeptide is disclosed as well as the interior structural region and the amino acid residue sequence of the native biol. mol. Methods are provided to identify compds. that modulate the biol. activity of the human Ste20-like signal transduction serine/threonine kinase. Also described are antisense nucleic acid sequences capable of inhibiting expression of the kinase, a pharmaceutical composition containing a compound capable of modulating the the kinase activity, and a diagnostic kit containing antibodies to the kinase or PCR primers derived from the encoding cDNA.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:513247 HCAPLUS

DOCUMENT NUMBER: 129:240625

TITLE: Human ULK1, a novel serine/threonine kinase related to UNC-51 kinase of *Caenorhabditis elegans*: cDNA cloning, expression, and chromosomal assignment

AUTHOR(S): Kuroyanagi, Hidehito; Yan, Jin; Seki, Naohiko; Yamanouchi, Yasuko; Suzuki, Yo-ichi; Takano, Takako; Muramatsu, Masa-aki; Shirasawa, Takuji

CORPORATE SOURCE: Department of Mol. Genetics, Tokyo Metropolitan Inst. of Gerontology, Tokyo, 173-0015, Japan

SOURCE: Genomics (1998), 51(1), 76-85  
CODEN: GNMCEP; ISSN: 0888-7543

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The unc-51 gene, isolated from mutants of *Caenorhabditis elegans* exhibiting abnormal axonal extension and growth, encodes a novel serine/threonine kinase (K. Ogura, et al., 1994, *Genes Dev.* 8: 2389-2400). Here we report the mol. cloning and characterization of the human homolog of UNC-51, designated ULK1, for UNC-51 (*C. elegans*)-like kinase 1. Sequence anal. of the human ULK1 cDNA showed that an open reading frame is composed of 1050 amino acids with a calculated MW of 112.6 kDa and a pI of 8.80. Homol. search anal. showed that ULK1 has 41% overall similarity to UNC-51 and 29% similarity to Apglp of *Saccharomyces cerevisiae*. Phylogenetic anal. of ULK1, UNC-51, and Apglp suggested that they constitute a novel subfamily of serine/threonine kinases. Southern blot analyses suggested that the ULK1 gene spans 30-40 kb in the human genome as a single-copy gene. Zoo blot anal. indicated that ULK1 kinase is conserved among vertebrates including mammals, birds, reptiles, amphibians, and fish. Northern blot anal. revealed that ULK1 is ubiquitously expressed in adult human tissues such as skeletal muscle, heart, pancreas, brain, placenta, liver, kidney, and lung, whereas UNC-51 is specifically detected in the nervous system of *C. elegans*. Both FISH and RH mapping confirmed the regional localization of ULK1 to human chromosome 12q24.3. (c) 1998 Academic Press.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:310757 HCAPLUS

DOCUMENT NUMBER: 126:288101

TITLE: Human serine kinase  
PSKH-1 cDNA sequence, ribozymes that cleave PSKH-1

INVENTOR(S): mRNA, and therapeutic uses in treating diseases  
 related to abnormal cell proliferation  
 Prydz, Hans Peter Blankenborg; Brede, Gaute  
 PATENT ASSIGNEE(S): Prydz, Hans Peter Blankenborg, Norway; Brede, Gaute  
 SOURCE: PCT Int. Appl., 40 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9711163	A1	19970327	WO 1996-NO220	19960918
W: AU, CA, JP, NO, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2232301	AA	19970327	CA 1996-2232301	19960918
AU 9672301	A1	19970409	AU 1996-72301	19960918
AU 709027	B2	19990819		
EP 862619	A1	19980909	EP 1996-933666	19960918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 5856463	A	19990105	US 1996-715568	19960918
JP 2002515726	T2	20020528	JP 1997-512614	19960918
PRIORITY APPLN. INFO.:			NO 1995-3680	A 19950918
			WO 1996-NO220	W 19960918

AB Disclosed is a purified full-length cDNA mol. encoding putative serine kinase enzyme (PSKH-1), and the expression of the cDNA in a recombinant host cell to produce substantially purified PSKH-1. Inactivation of PSKH-1 pre-mRNA or PSKH-1 mRNA halts DNA synthesis and cell division. Also disclosed are ribozymes capable of cleaving PSKH-1 pre-mRNA or mRNA and thus deactivating PSKH-1 translation. Ribozymes of the hammerhead and hairpin motifs, and various compns. containing same, are also disclosed. The ribozymes compns. are used in the treatment of mammalian patients suffering from diseases or medical conditions characterized by abnormal cell proliferation or growth such as cancer and various non-malignant diseases or medical conditions such as autoimmune diseases, allograft rejection and atherosclerosis.

L27 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:498524 HCAPLUS  
 DOCUMENT NUMBER: 125:215535  
 TITLE: prk, A cytokine-inducible human protein  
 serine/threonine kinase whose expression appears to be  
 down-regulated in lung carcinomas  
 AUTHOR(S): Li, Bo; Ouyang, Bin; Pan, Huiqi; Reissmann, Peter T.;  
 Slamon, Dennis J.; Arceci, Robert; Lu, Luo; Dai, Wei  
 CORPORATE SOURCE: Div. Hematol. Oncol., Univ. Cincinnati Coll. Med.,  
 Cincinnati, OH, 45267, USA  
 SOURCE: Journal of Biological Chemistry (1996), 271(32),  
 19402-19408  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PUBLISHER: American Society for Biochemistry and Molecular  
 Biology  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The authors have cloned and characterized a putative protein serine/threonine kinase termed prk through a combination of polymerase chain reaction and conventional cDNA library screening approaches. There are apparently two distinct domains within prk protein deduced from its nucleotide sequences. The amino-terminal portion has the feature of the catalytic domain of a serine/threonine kinase and shows strong homol. to mouse fnk and other polo family kinases including mouse snk, human and murine plk, Drosophila polo, and yeast Cdc5. The carboxyl-terminal

portion, presumably the regulatory domain, shares extensive homol. to mouse fnk. Northern blotting analyses reveal that prk expression is restricted to a very limited number of tissues with placenta, ovaries, and lung containing detectable amts. of prk mRNA. Prk mRNA expression is also detected at a low level in the megakaryocytic cell line Dami, MO7e, and three brain glioma cell lines. In addition, refeeding of serum-deprived MO7e, Dami, and K562 cells of hematopoietic origin and GM00637D of lung fibroblasts rapidly activates prk mRNA expression with its peak induction around 2 h after serum addition. Prk gene activation by the serum requires no new protein synthesis. The recombinant cytokines such as interleukin-3 and thrombopoietin also activate prk mRNA expression in MO7e cells. Furthermore, a survey of RNAs isolated cancer patients reveals that prk mRNA expression is significantly down-regulated in tumor tissues. Southern blotting anal. indicates that the prk gene is present in a single copy in the genome of tumors and normal cells. Taken together, these results suggest that prk expression may be restricted to proliferating cells and involved in the regulation of cell cycle progression. The mol. cloning of prk cDNA will facilitate the study of its biol. role as well as its potential role in tumorigenesis.

L27 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:312447 HCAPLUS  
DOCUMENT NUMBER: 125:27254  
TITLE: Cloning and characterization of GRB14, a novel member of the GRB7 gene family  
AUTHOR(S): Daly, Roger J.; Sanderson, Georgina M.; Janes, Peter W.; Sutherland, Robert L.  
CORPORATE SOURCE: Cancer Biol. Div., Garvan Inst. Med. Res., New South Wales, 2010, Australia  
SOURCE: Journal of Biological Chemistry (1996), 271(21), 12502-12510  
CODEN: JBCHA3; ISSN: 0021-9258  
PUBLISHER: American Society for Biochemistry and Molecular Biology  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Screening of a human breast epithelial cell cDNA library with the tyrosine-phosphorylated C terminus of the epidermal growth factor receptor identified a novel member of the GRB7 gene family, designated GRB14. In addition to a pleckstrin homol. domain-containing central region homologous to the *Caenorhabditis elegans* protein F10E9.6/mig10 and a C-terminal Src homol. 2 (SH2) domain, a conserved N-terminal motif, P(S/A)IPNPFPEL, can now be included as a hallmark of this family. GRB14 mRNA was expressed at high levels in the liver, kidney, pancreas, testis, ovary, heart, and skeletal muscle. Anti-Grb14 antibodies recognized a protein of approx. 58 kDa in a restricted range of human cell lines. Among those of breast cancer origin, GRB14 expression strongly correlated with estrogen receptor positivity, and differential expression was also observed among human prostate cancer cell lines. A GST-Grb14 SH2 domain fusion protein exhibited strong binding to activated platelet-derived growth factor (PDGF) receptors (PDGFRs) in vitro, but association between Grb14 and  $\beta$ -PDGFRs could not be detected in vivo. In serum-starved cells, Grb14 was phosphorylated on serine residues, which increased with PDGF, but not EGF, treatment. Grb14 is therefore a target for a PDGF-regulated serine kinase, an interaction that does not require PDGFR-Grb14 association

L27 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:727998 HCAPLUS  
DOCUMENT NUMBER: 123:277512  
TITLE: A human homolog of the *Drosophila* tumor suppressor gene 1(2)gl maps to 17p11.2-12 and codes for a cytoskeletal protein that associates with nonmuscle myosin II heavy chain  
AUTHOR(S): Strand, Dennis; Unger, Sylvia; Corvi, Raffaella;



Hartenstein, Kirsten; Schenkel, Heide; Kalmes, Andreas; Merdes, Gunter; Neumann, Beate; Krieg-Schneider, Frank

CORPORATE SOURCE: Dep. of Developmental Genetics, Deutsches Krebsforschungszentrum, Heidelberg, D-69120, Germany

SOURCE: Oncogene (1995), 11(2), 291-301

CODEN: ONCNES; ISSN: 0950-9232

PUBLISHER: Macmillan Scientific & Medical Division

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Inactivation of the tumor suppressor gene lethal(2) giant larvae (D-lgl) of *Drosophila* leads to malignant transformation of the presumptive adult optic centers in the larval brain and tumors of the imaginal disks. These malignancies result from the disorganization of a cytoskeletal network in which the D-LGL protein participates. Here we describe the isolation of a cDNA encoding the human homolog to the D-lgl gene designated as hugl. The hugl cDNA detects a locus spanning at least 25 kilobases (kb) in human chromosome band 17p11.2-12, which is centromeric to the p53 gene and recognizes a 4.5 kb RNA transcript. The hugl gene is expressed in brain, kidney and muscle but is barely seen in heart and placenta. Sequence anal. of the hugl cDNA demonstrates a long open reading frame, which has the potential to encode a protein of 1057 amino acids with a predicted mol. weight of 115 kdalton (kD). To further substantiate and identify the HUGL protein, we have prepared polyclonal rabbit antibodies against synthetic peptides corresponding to the amino and carboxyl termini of the conceptual translation product of the hugl gene. The affinity-purified anti-HUGL antibodies recognize a single protein with an apparent mol. weight of .apprx.115 kD. Similar to the *Drosophila* protein, HUGL is part of a cytoskeletal network and, is associated with nonmuscle myosin II heavy chain and a kinase that specifically phosphorylates HUGL at serine residues.

L27 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:318218 HCAPLUS

DOCUMENT NUMBER: 120:318218

TITLE: Induction and down-regulation of PLK, a human serine/threonine kinase expressed in proliferating cells and tumors

AUTHOR(S): Holtrich, Uwe; Wolf, Georg; Braeuninger, Andreas; Karn, Thomas; Boehme, Beatrix; Ruebsamen-Waigmann, Helga; Strebhardt, Klaus

CORPORATE SOURCE: Chemotherapeutisches Forschungsinst., Georg-Speyer-Haus, Frankfurt, 60596, Germany

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1994), 91(5), 1736-40

CODEN: PNAS6; ISSN: 0027-8424

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors have identified the nucleotide sequence of the cDNA encoding the human counterpart of the mouse gene Plk (polo-like kinase). The sequence of the human gene, PLK, predicts a serine/threonine kinase of 603 aa. Expression of PLK mRNA appeared to be strongly correlated with the mitotic activity of cells. Resting peripheral lymphocytes did not express the gene at all. When primary T cells were activated by phytohemagglutinin, a high level of PLK transcripts resulted within 2-3 days. In some cases, addition of interleukin 2 to these cells increased the expression of PLK mRNA further. In contrast, primary cultures of human peripheral macrophages, which were not dividing under the culture conditions applied, showed very little or no PLK mRNA. Stimulation of these cells by bacterial lipopolysaccharide, and inducer of several cytokines in macrophages, totally abrogated the expression of PLK mRNA. In line with a function of PLK mRNA expression in mitotically active cells is the authors' finding that six immortalized cell lines examined expressed the gene. In A-431 epidermoid carcinoma cells this expression was down-regulated by serum starvation and enhanced after serum was added



again. Tumors of various origin (lung, colon, stomach, smooth muscle, and esophagus as well as non-Hodgkin lymphomas) expressed high levels of PLK transcripts in about 80% of the samples studied, whereas PLK mRNA was absent in surrounding tissue, except for colon. The only normal tissues where PLK mRNA expression was observed were colon and placenta, both known to be mitotically active. No PLK transcripts were found in normal adult lung, brain, heart, liver, kidney, skeletal muscle, and pancreas. In Northern blot expts. with RNA from lymphocytes which were treated with phytohemagglutinin and cycloheximide, PLK transcripts were not detectable, suggesting that PLK is not an early growth-response gene.

L27 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:264453 HCAPLUS

DOCUMENT NUMBER: 120:264453

TITLE: Prokaryotic expression cloning of a novel human tyrosine kinase

AUTHOR(S): Beeler, John F.; LaRochelle, William J.; Chedid, Marcio; Tronick, Steven R.; Aaronson, Stuart A.

CORPORATE SOURCE: Lab. Cell. Mol. Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA

SOURCE: Molecular and Cellular Biology (1994), 14(2), 982-8  
CODEN: MCEBD4; ISSN: 0270-7306

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Screening of a human embryonic lung fibroblast cDNA expression library with antiphosphotyrosine antibodies led to isolation of a novel protein kinase. A clone, designated A6, contained a 3-kb cDNA insert with a predicted open reading frame of 350 amino acids. DNA sequence anal. failed to reveal any detectable similarity with previously known genes, and the predicted A6 protein lacked any of the motifs commonly conserved in the catalytic domains of protein kinases. However, the bacterially expressed  $\beta$ -galactosidase-A6 fusion protein demonstrated both tyrosine and serine phosphorylation in an in vitro kinase assay and phosphorylated exogenous substrates including myelin basic protein specifically on tyrosine residues. The enzyme also displayed biochem. properties analogous to those of other protein tyrosine kinases. The A6 gene was found to be expressed widely at the transcript level in normal tissues and was evolutionarily conserved. Thus, A6 represents a novel tyrosine kinase which is highly divergent from previously described members of this important class of regulatory mols.

L27 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:96946 HCAPLUS

DOCUMENT NUMBER: 120:96946

TITLE: Cloning of a TGF $\beta$  type I receptor that forms a heteromeric complex with the TGF $\beta$  type II receptor

AUTHOR(S): Franzen, Petra; ten Dijke, Peter; Ichijo, Hidenori; Yamashita, Hidetoshi; Schulz, Peter; Heldin, Carl Henrik; Miyazono, Kohei

CORPORATE SOURCE: Biomed. Cent., Ludwig Inst. Cancer Res., Uppsala, S-751 24, Swed.

SOURCE: Cell (Cambridge, MA, United States) (1993), 75(4), 681-92  
CODEN: CELLB5; ISSN: 0092-8674

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A cDNA clone encoding a 53 kDa serine/threonine kinase receptor with an overall structure similar to that of the type II receptor for transforming growth factor  $\beta$  (TGF $\beta$ ) was obtained. <sup>125</sup>I-TGF $\beta$ 1 bound to porcine endothelial cells transfected with the cDNA and formed a cross-linked complex of 70 kDa, characteristic of a TGF $\beta$  type I receptor. Immunopptn. of the cross-linked complexes by antibodies against the cloned receptor revealed the 70 kDa complex as well as a 94 kDa

TGFβ type II receptor complex. The immunopptd. novel serine/threonine kinase receptor had biochem. properties of the TGFβ type I receptor and was observed in different cell types. Transfection of the cloned cDNA into TGFβ type I receptor-deficient cells restored TGFβ-induced plasminogen activator inhibitor I production. These results suggest that signal transduction by TGFβ involves the formation of a heteromeric complex of two different serine/threonine kinase receptors.

L27 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:48831 HCAPLUS

DOCUMENT NUMBER: 120:48831

TITLE: The human cot proto-oncogene encodes two protein serine/threonine kinases with different transforming activities by alternative initiation of translation

AUTHOR(S): Aoki, Masahiro; Hamada, Fumihiko; Sugimoto, Toshiro; Sumida, Shuji; Akiyama, Tetsu; Toyoshima, Kumao

CORPORATE SOURCE: Res. Inst. Microb. Dis., Osaka Univ., Suita, 565, Japan

SOURCE: Journal of Biological Chemistry (1993), 268(30), 22723-32

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The cot gene is an oncogene encoding serine/threonine kinases isolated by DNA transfection assay. In this study, cDNA for the human cot protooncogene (proto-cot gene) was isolated and the structure and function of its gene products were examined. The proto-cot gene has an open reading frame encoding 467 amino acids of which the first 397 amino acids are identical to those in the corresponding part of the cot gene. The protein products of the proto-cot gene were identified as 58- and 52-kDa proteins with intrinsic protein serine/threonine kinase activity. These two protein species were suggested to be generated by alternative initiation from two AUGs. The 58- and 52-kDa proteins are both localized predominantly in the cytosol, but the 58-kDa protein has a shorter half-life than the 52-kDa protein, suggesting the importance of the amino-terminal domain in regulating the stability of the proto-Cot protein. More interestingly, the 58-kDa protein showed stronger transforming activity than the 52-kDa protein, although this activity was much weaker than that of the Cot oncoprotein. Thus, the amino-terminal domain of the Cot protein may be necessary for cellular transformation, whereas the carboxyl-terminal domain may neg. regulate the transforming activity.

L27 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:486803 HCAPLUS

DOCUMENT NUMBER: 119:86803

TITLE: Stimulation by insulin of a serine kinase in human platelets that phosphorylates and activates the cGMP-inhibited cAMP phosphodiesterase

AUTHOR(S): Lopez-Aparicio, Pilar; Belfrage, Per; Manganiello, Vincent C.; Kono, Tetsuro; Degerman, Eva

CORPORATE SOURCE: Dep. Med. Physiol. Chem., Univ. Lund, Lund, S-22100, Swed.

SOURCE: Biochemical and Biophysical Research Communications (1993), 193(3), 1137-44

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors previously reported that insulin stimulation of human platelets induces serine phosphorylation and activation of the cGMP-inhibited cAMP phosphodiesterase (cGI-PDE). Here, the authors describe methods to detect and partially purify an insulin-stimulated cGI-PDE kinase (cGI-PDE ISK) from lysates of platelets incubated with insulin. Incubation of human platelets with 10<sup>-8</sup> M insulin increased

cGI-PDE ISK activity two-fold. The DEAE-Sephacel-purified cGI-PDE ISK phosphorylated the cGI-PDE on serine in a time- and concentration-dependent manner resulting in an increased incorporation of about 0.2 mol of [32P]/mol of cGI-PDE and 15-20% increase in cGI-PDE activity. The phosphorylation of cGI-PDE was not affected by 10  $\mu$ M PKI, 1  $\mu$ g/mL of heparin, 3 mM CaCl<sub>2</sub> or 1 mM MnCl<sub>2</sub>. CGI-PDE ISK did not adsorb to antiphosphotyrosine antibodies. To maintain its activation it was necessary to add protein phosphatase inhibitors to the lysate-buffers. All of these findings are consistent with the conclusion that a serine/threonine phosphorylation of the cGI-PDE ISK is involved in its activation by insulin.

L27 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:446503 HCAPLUS

DOCUMENT NUMBER: 119:46503

TITLE: Expression cDNA cloning of a serine kinase transforming gene

AUTHOR(S): Chan, Andrew M. L.; Chedid, Marcio; McGovern, Elizabeth S.; Popescu, Nickolas C.; Miki, Toru; Aaronson, Stuart A.

CORPORATE SOURCE: Lab. Cell. Mol. Biol., Natl. Cancer Inst., Bethesda, MD, 20892, USA

SOURCE: Oncogene (1993), 8(5), 1329-33

CODEN: ONCNES; ISSN: 0950-9232

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Ectopic expression of cDNAs derived from a Ewing sarcoma cell line in NIH3T3 cells, was used to isolate a transforming gene (est). Sequence anal. revealed homol. to the cot oncogene, which encodes a novel serine kinase. Whereas the cot product was truncated at its carboxy-terminal end as a result of gene rearrangement during transfection, est encodes the normal cot product. Thus, this gene can be activated as an oncogene by overexpression as well as by gene rearrangement. NIH3T3 cells transfected with est formed progressively growing colonies in soft agar and were tumorigenic in nude mice. The 3.2-kb est transcript was expressed at low levels in both human fibroblasts and epithelial cells. Addition of the tumor promoter, okadaic acid (OA), or cytokine, interleukin 1 (IL-1), but not serum or platelet-derived growth factor (PDGF), induced increased expression of the est transcript. Fluorescence in situ hybridization was used to localize the est gene to the short arm of human chromosome 10 at band p11.2.

L27 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:509916 HCAPLUS

DOCUMENT NUMBER: 117:109916

TITLE: Specific protein kinases modulated during T cell mitogenesis. Activity of a 55-kDa serine kinase is associated with growth arrest in human T cells

AUTHOR(S): Evans, Gerald A.; Linnekin, Diana; Grove, Sheldon; Farrar, William L.

CORPORATE SOURCE: Biol. Carcinog. Dev. Program, Program Resour. Inc., Frederick, MD, 21702-1201, USA

SOURCE: Journal of Biological Chemistry (1992), 267(15), 10313-17

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The intracellular events which are involved in controlling the G1 to S phase transition during the eukaryotic cell cycle are important to define in order to understand the mechanisms by which mitogenic and growth arrest-inducing agents control cell growth. Because a change in protein kinase activity is associated with the initial response of cells to mitogenic stimulants and growth factors, a kinase renaturation assay was used to identify specific protein kinases which are modulated as human T cells

make the G1 to S phase transition after mitogenic stimulation with lectin. Four protein serine/threonine kinases of 180, 97, 85, and 38 kilodaltons were identified which are increased in activity as these cells enter S phase. A 55 kDa serine/threonine kinase (PK55) was shown to have maximal activity during G0 and its activity was reduced by 95% upon movement into S phase. PK55 is inducible in human T cells by removal of interleukin 2 and low serum incubation which arrests cells in G1 phase, indicating that it is closely associated with G1 phase growth arrest. Furthermore, a similar PK55 activity was induced upon growth arrest in HL-60 cells treated with DMSO and in Daudi cells treated with interferon  $\alpha$ . Because the cAMP-dependent protein kinase (PK-A) family has been shown to be antiproliferative to lectin stimulated T cells, it was examined whether PK55 was in fact an isoenzyme of PK-A. Comparative anal. using a specific peptide inhibitor of PK-A activity revealed that PK55 is catalytically distinct from PK-A. Thus, increases in PK55 may be associated with the growth-arrested state and PK55 is distinct from PK-A.

L27 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:674535 HCAPLUS

DOCUMENT NUMBER: 115:274535

TITLE: cdc2 Phosphorylation is required for its interaction with cyclin

AUTHOR(S): Ducommun, Bernard; Brambilla, Paolo; Felix, Marie Anne; Franza, B. Robert, Jr.; Karsenti, Eric; Draetta, Giulio

CORPORATE SOURCE: Diff. Program., Eur. Mol. Biol. Lab., Heidelberg, D-6900, Germany

SOURCE: EMBO Journal (1991), 10(11), 3311-19  
CODEN: EMJODG; ISSN: 0261-4189

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Activation of the cdc2 protein kinase at different stages of the cell cycle is regulated by post-translational modifications and interactions with cyclins. It is shown that in vitro translated human cdc2 binds very poorly to A and B cyclins, unless it has been preincubated with a Xenopus egg extract. This results in the phosphorylation of cdc2 which allows binding to cyclins. The replacement of Thr161, a residue conserved and phosphorylated in other protein kinase, with valine inhibits cdc2 association with A and B cyclins. In addition, mutations in the amino-terminus of cdc2 and within the conserved PSTAIR region strongly inhibit binding. The Thr161Val mutation causes a lethal phenotype in the fission yeast *Schizosaccharomyces pombe*, while replacement of Thr161 with glutamic acid, potentially mimicking phosphorylation, causes uncoordination of mitosis and multiple cytokinesis. These results suggest that a threonine phosphorylation/dephosphorylation cycle is involved in regulating cdc2 function.

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(FILE 'HOME' ENTERED AT 12:06:48 ON 01 JUL 2004)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 12:07:10 ON 01 JUL 2004

L1 1212511 S KINASE?  
L2 442433 S HUMAN AND L1  
L3 406466 S SERINE OR THREONINE  
L4 39005 S L2 AND L3  
L5 6588705 S CLON? OR EXPRESS? OR RECOMBINANT  
L6 22817 S L4 AND L5  
L7 4757769 S HIPPOCAMPUS OR BREAST OR CARCINOMA OR BRAIN  
L8 0 S KIDNEY OT UTERUS  
L9 1844028 S KIDNEY OR UTERUS  
L10 4280 S L6 AND L7

L11	1410 S L6 AND L9
L12	5270 S L10 OR L11
L13	4661 SS L1 (2W)L3
L14	4661 S L1 (2W)L3
L15	195 S L12 AND L14
L16	126 DUP REM L15 (69 DUPLICATES REMOVED) E YE J/AU
L17	1758 S E3 E YAN C/AU
L18	1019 S E3 E DIFRANCESCO V/AU
L19	112 S E3-E4 E BEASLEY E M/AU
L20	297 S E3
L21	3154 S L16 OR L17 OR L18 OR L19 OR L20
L22	126 S L15 AND L21
L23	126 DUP REM L22 (0 DUPLICATES REMOVED)
L24	1665 S "STK"
L25	0 S L23 AND L24
L26	41147 S L1(A)L3
L27	25 S HUMAN (A)L26
L28	1 S L22 AND L27



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2	20040701	17	US 20040126823 A1	Modulation of prostaglandin synthesis and cancer growth
3	20040617	58	US 20040116442 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
4	20040617	41	US 20040116364 A1	Modulation of death-associated protein kinase 1 expression
5	20040610	133	US 20040110227 A1	Methods and systems for identifying putative fusion transcripts, polypeptides encoded therefrom and polynucleotide sequences related thereto and methods and kits utilizing same
6	20040603	143	US 20040106667 A1	Substituted indazoles, compositions containing them, method of production and use
7	20040603	80	US 20040106624 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
8	20040527	49	US 20040102452 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
9	20040527	60	US 20040102451 A1	Novel pyrazolopyrimidines as cyclin dependent kinase inhibitors
10	20040527	35	US 20040101529 A1	REGULATION OF HUMAN SERINE-THREONINE PROTEIN KINASE



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11	20040520	50	US 20040097517 A1	Novel imidazopyridines as cyclin dependent kinase inhibitors
12	20040520	41	US 20040097516 A1	Novel pyrazolopyridines as cyclin dependent kinase inhibitors
13	20040513	78	US 20040092469 A1	Androgen-regulated PMEPA1 gene and polypeptides
14	20040513	207	US 20040091993 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
15	20040513	42	US 20040091992 A1	PAK4 - related antibodies
16	20040513	279	US 20040091969 A1	Novel compounds
17	20040429	72	US 20040081652 A1	Neuronal and optic nerve gene expression patterns
18	20040422	55	US 20040077049 A1	Regulation of human weel-like serine/threonine protein kinase
19	20040422	253	US 20040076955 A1	Methods of diagnosis of bladder cancer, compositions and methods of screening for modulators of bladder cancer
20	20040415	19	US 20040072835 A1	Novel imidazopyrazines as cyclin dependent kinase inhibitors
21	20040415	337	US 20040072160 A1	Molecular toxicology modeling

	Issue Date	Pages	Document ID	Title
22	20040408	53	US 20040067568 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
23	20040401		US 20040063715 A1	Novel imidazopyrazines as cyclin dependent kinase inhibitors
24	20040318		US 20040053931 A1	Azaindoles
25	20040318	287	US 20040053245 A1	Novel nucleic acids and polypeptides
26	20040311	152	US 20040048310 A1	Novel human protein kinases and protein kinase-like enzymes
27	20040311	267	US 20040048249 A1	Novel nucleic acids and secreted polypeptides
28	20040304	184	US 20040043466 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
29	20040304		US 20040043375 A1	Regulation of human serine-threonine protein kinase
30	20040226	259	US 20040038207 A1	Gene expression in bladder tumors
31	20040219		US 20040033517 A1	Compositions and methods relating to endothelial cell signaling using the protease activated receptor (PAR1)

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32	20040219	324	US 20040033495 A1	Methods of diagnosis of angiogenesis, compositions and methods of screening for angiogenesis modulators
33	20040212	570	US 20040029114 A1	Methods of diagnosis of breast cancer, compositions and methods of screening for modulators of breast cancer
34	20040205	141	US 20040023276 A1	LXR-ligand induced genes and proteins
35	20040205	71	US 20040023231 A1	System for identifying and analyzing expression of are-containing genes
36	20040129	234	US 20040018525 A1	Methods and compositions for the prediction, diagnosis, prognosis, prevention and treatment of malignant neoplasma
37	20040129		US 20040018257 A1	Use of unsaponifiable components of vegetable oils for preparing a cosmetic and related treatments
38	20040122		US 20040013753 A1	Use of unsaponifiable components of vegetable oils for preparing a food additive
39	20040115	73	US 20040010136 A1	Composition for the detection of signaling pathway gene expression
40	20040115		US 20040009983 A1	Azaindoles
41	20040115	60	US 20040009477 A1	Methods for producing libraries of expressible gene sequences

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42	20040108	58	US 20040005624 A1	84573, a human protein kinase family member and uses therefor
43	20040108		US 20040005612 A1	Endometrial genes in endometrial disorders
44	20040108		US 20040005603 A1	Gene shinc-3 and diagnostic and therapeutic uses thereof
45	20040108	345	US 20040005563 A1	Methods of diagnosis of ovarian cancer, compositions and methods of screening for modulators of ovarian cancer
46	20040108	165	US 20040005560 A1	Novel full-length cDNA
47	20040108	64	US 20040005559 A1	Markers of neuronal differentiation and morphogenesis
48	20040108		US 20040005537 A1	Method of identifying toxic agents using differential gene expression
49	20040101		US 20040002496 A1	Compositions useful as inhibitors of protein kinases

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52	20031218	111	US 20030232408 A1	ISOLATED HUMAN KINASE PROTEINS
53	20031218		US 20030232391 A1	Identification of kinase inhibitors
54	20031211		US 20030228618 A1	Methods and systems for identifying naturally occurring antisense transcripts and methods, kits and arrays utilizing same
55	20031211	122	US 20030228595 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
56	20031204	317	US 20030225527 A1	Crystals and structures of MST3
57	20031204		US 20030225023 A1	Gene SHINC-2 and diagnostic and therapeutic uses thereof
58	20031204		US 20030224422 A1	Pre-and post therapy gene expression profiling to identify drug targets
59	20031127	176	US 20030219875 A1	Albumin fusion proteins



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72	20030911		US 20030170715 A1	Method for the rapid and ultra-sensitive detection of leukemic cells
73	20030911	61	US 20030170713 A1	Method of detecting androgen-regulated gene
74	20030904		US 20030166541 A1	83 human secreted proteins
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79	20030814		US 20030152926 A1	Novel methods of diagnosis of angiogenesis, compositions and methods of screening for angiogenesis modulators
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87	20030717	62	US 20030134280 A1	Identifying drugs for and diagnosis of benign prostatic hyperplasia using gene expression profiles
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98	20030417	102	US 20030073163 A1	Libraries of expressible gene sequences
99	20030417		US 20030073143 A1	DIAGNOSIS AND TREATMENT OF ALK-7 RELATED DISORDERS
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101	20030327		US 20030059918 A1	Regulation of human serine/threonine protein kinase
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108	20030130		US 20030022835 A1	Compositions isolated from skin cells and methods for their use
109	20030130	89	US 20030022341 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
110	20030130	207	US 20030022340 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
111	20030130	53	US 20030022337 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
112	20030130	41	US 20030022232 A1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
113	20021219	195	US 20020192678 A1	Genes expressed in senescence
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120	20020912	174	US 20020127683 A1	ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF
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123	20020627	320	US 20020082189 A1	ISOLATED HUMAN SERINE/THREONINE KINASE NUCLEIC ACID MOLECULES ENCODING HUMAN SERINE/THREONINE KINASE AND USES THEREOF
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129	20011122		US 20010044104 A1	Genes defferentially expressed in secretory versus proliferative endometrium
130	20011025		US 20010034351 A1	Substituted bicyclic derivatives useful as anticancer agents
131	20011004	15	US 20010027184 A1	Serine/threonine protein kinase (H-SGK2)
132	20040622		US 6753314 B1	Protein-protein complexes and methods of using same
133	20040525		US 6740513 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

	Issue Date	Pages	Document ID	Title
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137	20040316	106	US 6706511 B2	Isolated human kinase proteins
138	20040316		US 6706510 B2	Isolated human kinase proteins
139	20040224		US 6696260 B1	Methods to identify growth differentiation factor (GDF) binding proteins
140	20040217		US 6692948 B2	Isolated human kinase proteins
141	20040217		US 6692744 B2	Betaglycan as an inhibin receptor and uses thereof
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	Issue Date	Pages	Document ID	Title
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144	20040120		US 6680188 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
145	20040106		US 6673597 B2	Growth stimulation of biological cells and tissue by electromagnetic fields and uses thereof
146	20031223		US 6667168 B1	PAK4, a novel gene encoding a serine/threonine kinase
147	20031125	180	US 6653117 B2	Isolated human kinase proteins
148	20031104		US 6642362 B1	Genes coding proteins for early liver development and their use in diagnosing and treating liver disease
149	20031028	78	US 6638745 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
150	20030708		US 6589733 B1	Methods of preparing compositions comprising chemicals capable of transcriptional modulators
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	Issue Date	Pages	Document ID	Title
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153	20030520	58	US 6566130 B1	Androgen-regulated gene expressed in prostate tissue
154	20030408		US 6544741 B1	Sequence specific and sequence non-specific methods and materials for cDNA normalization and subtraction
155	20030401		US 6541481 B2	Substituted bicyclic derivatives useful as anticancer agents
156	20030311		US 6531284 B1	Fast and exhaustive method for selecting a prey polypeptide interacting with a bait polypeptide of interest: application to the construction of maps of interactors polypeptides
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159	20021231	86	US 6500656 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

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160	20021210	107	US 6492156 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
161	20021210	180	US 6492155 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
162	20021126		US 6485963 B1	Growth stimulation of biological cells and tissue by electromagnetic fields and uses thereof
163	20021119	46	US 6482935 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
164	20021119		US 6482623 B1	Lipid kinase
165	20021112	202	US 6479269 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
166	20020730		US 6426221 B1	Antisense modulation of RIP2 expression

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177	20011002		US 6297035 B1	ERK1 MAP2 protein kinase
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179	20010821		US 6277963 B1	Antibodies directed toward extracellular signal-related kinases
180	20010710		US 6258776 B1	Calcium-regulated kinase

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183	20010109		US 6171798 B1	P53-regulated genes
184	20001017		US 6133006 A	YAK-1 related serine/threonine protein kinase-HTLAR33
185	20000411		US 6048706 A	Human PAK65
186	20000307		US 6034228 A	Human signal transduction serine/threonine kinase
187	20000215	62	US 6025194 A	Nucleic acid sequence of senescence associated gene
188	20000201		US 6020135 A	P53-regulated genes
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192	19991005		US 5962265 A	Human signal transduction serine/threonine kinase
193	19990921		US 5955594 A	Nucleic acids encoding proteins for early liver development
194	19990914		US 5952217 A	Recombinant yeast cell and assay using same
195	19990622		US 5914261 A	Family of MAP2 protein kinases
196	19990615		US 5912224 A	Methods and compositions for enhancing cellular response to TGF-.beta. ligands
197	19990216		US 5872006 A	Family of MAP2 protein kinases
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203	19971216		US 5698428 A	Human PAK65
204	19970708		US 5645988 A	Methods of identifying drugs with selective effects against cancer cells
205	19970225		US 5605825 A	Human PAK65
206	19970121		US 5595904 A	Family of map2 protein kinases
207	19960820		US 5547838 A	Method for the rapid and ultra-sensitive detection of leukemic cells
208	19960521		US 5518911 A	Human PAK65

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38	20021231	86	US 6500656 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
39	20021210	107	US 6492156 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
40	20021210	180	US 6492155 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
41	20021119	46	US 6482935 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
42	20021112	202	US 6479269 B2	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof
43	20020611		US 6403353 B1	Isolated human kinase proteins, nucleic acid molecules encoding human kinase proteins, and uses thereof

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